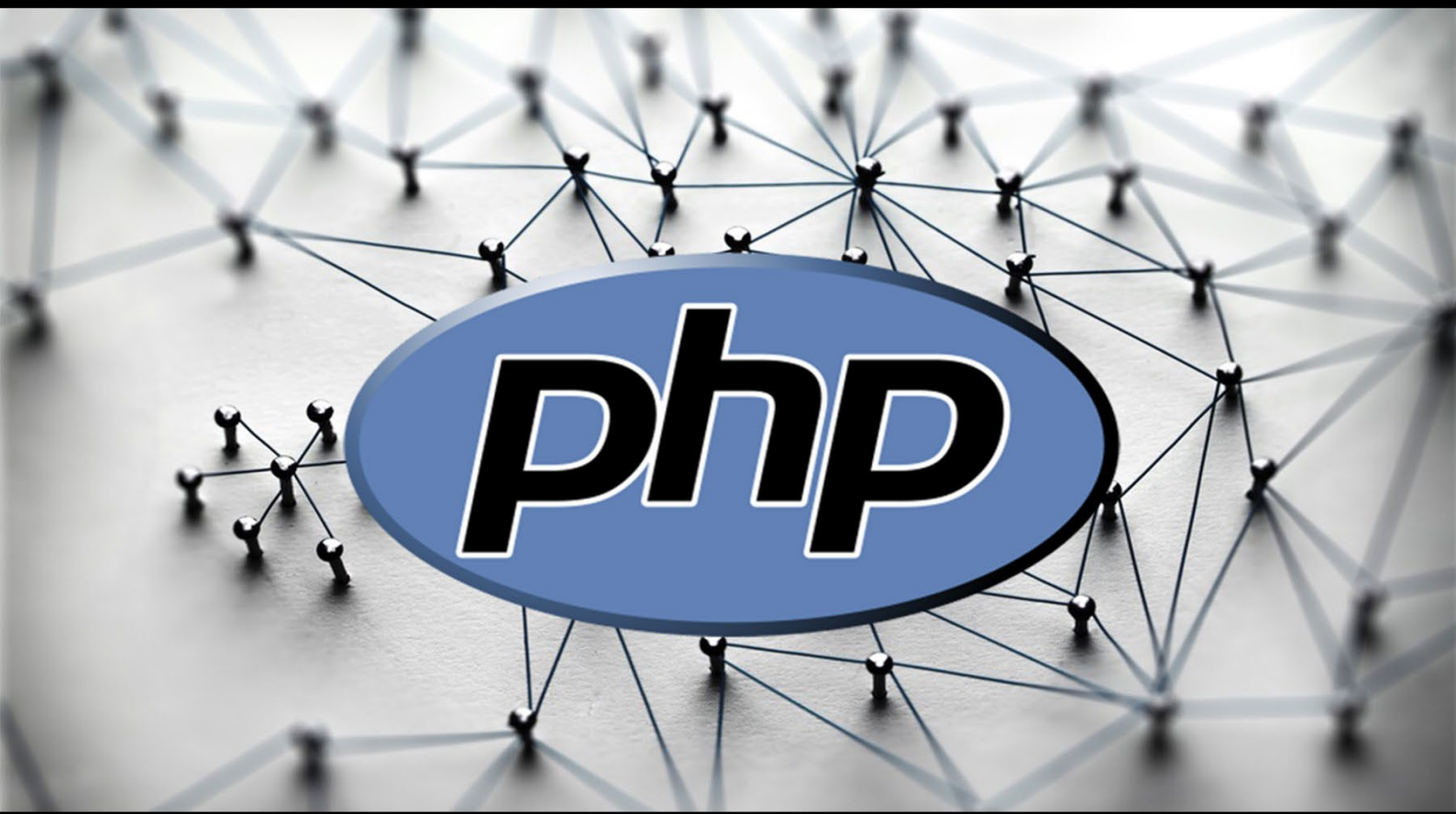


# Beginners Guide



# LEARN PHP

for Absolute Beginners

First Edition

[PHPBOOTCAMP.COM](http://PHPBOOTCAMP.COM)

EASY TO PRACTISE CODE SAMPLES

## About this Book

The PHP Hypertext Preprocessor (PHP) is a programming language that allows web developers to create dynamic content that interacts with databases. PHP is basically used for developing web-based software applications. This tutorial will help you understand the basics of PHP and how to put it in practice.

## Audience

This tutorial has been designed to meet the requirements of all those readers who are keen to learn the basics of PHP.

## Prerequisites

This book assumes you have no prior knowledge on Programming knowledge and assume you are at a beginner level.

## How to use this Book

This book contains PHP Language Basics, Exercises and Examples which are part of the PHP Bootcamp Program. This bootcamp has helped many students to become PHP Full Stack Web Developer in just 30 days.

[>>>Check out more about this program here...](#)

[Become PHP Full Stack Web Developer in Just 30 Days](#)

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# 1. PHP BASICS

# 1 PHP Basics

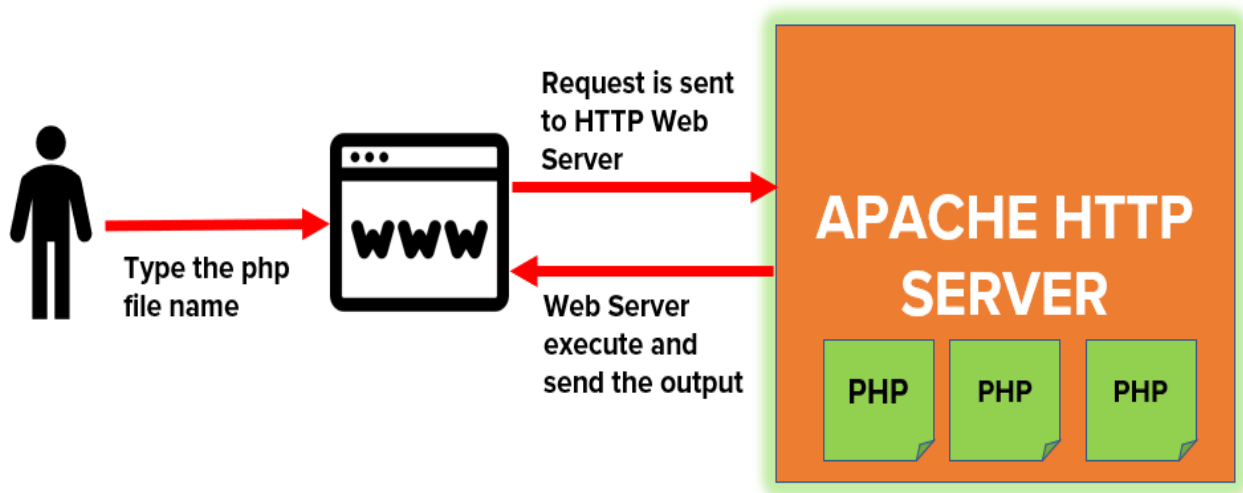
## 1.1 Installation of PHP

### Installation of PHP

To run PHP on your local system you need to install HTTP Web Server.

PHP is not like Java or C where you can install the libraries and run PHP on command prompt.

PHP is a server side programming and used in web. It is designed to run from Web Server like IIS or Apache HTTP Server.



### How PHP Works?

When user type the filename.php path in the browser url:

Browser will go to server where HTTP servers are running.

Web Server will listen to the request.

It will execute the PHP code on the server.

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## 1 PHP Basics

Take the output generated by the PHP Server.

Send it back to the browser.

Browser displays the output.

Things to Note:

You need a Web Server to run PHP code.

Server executes php on the server and returns the output of the code.

You won't be able to see PHP code on the browser.

Browser pass the user data from browser to server and fetch the data back from server.

Inserting into Database, Sending Email, Checking the login credentials is all done by php program at the server.

No one can see your php code.

## **Why need a Web Server?**

Try this exercise.

Create a sample file name index.php

Add the following PHP code.

```
<?php echo "Hello PHP!"; ?>
```

Open the index.php file in the browser.

Watch how browser just show the PHP code.

Browser does not understand PHP nor it understand how to interpret it.

That's the job of a WebServer.

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## 1 PHP Basics

Webserver interpret the PHP code and send the output to the browser.

That is the reason you need a Web Server to execute PHP code.

# Understand WAMP Server

You can choose install the following software individually:

Apache – <https://httpd.apache.org/>

PHP – <http://php.net/software.php>

MySQL – <https://www.mysql.com/>

phpMyAdmin – <https://www.phpmyadmin.net/>

**Apache** is the Web Server

**PHP** is the libraries that helps to run the php code

**MySQL** is the Database to store the data.

**phpMyAdmin** is the admin client to access your database.

Instead of installing all the software there is a package which combines all the software together and give a Web Environment to build web applications.

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# WAMP Server

- **APACHE HTTP SERVER**
- **PHP**
- **MYSQL**
- **PHPMYADMIN**

That is WAMP. – Windows Web Development Environment

WampServer is a Windows web development environment. It allows you to create web applications with Apache2, PHP and a MySQL database. Alongside, PhpMyAdmin allows you to manage easily your databases.

For Mac use this Software – <https://www.mamp.info/en/>

When you install WAMP you get:

Apache2

PHP

MySQL

phpMyAdmin

All 4 software are installed on your local machine which provides an environment to develop web application.

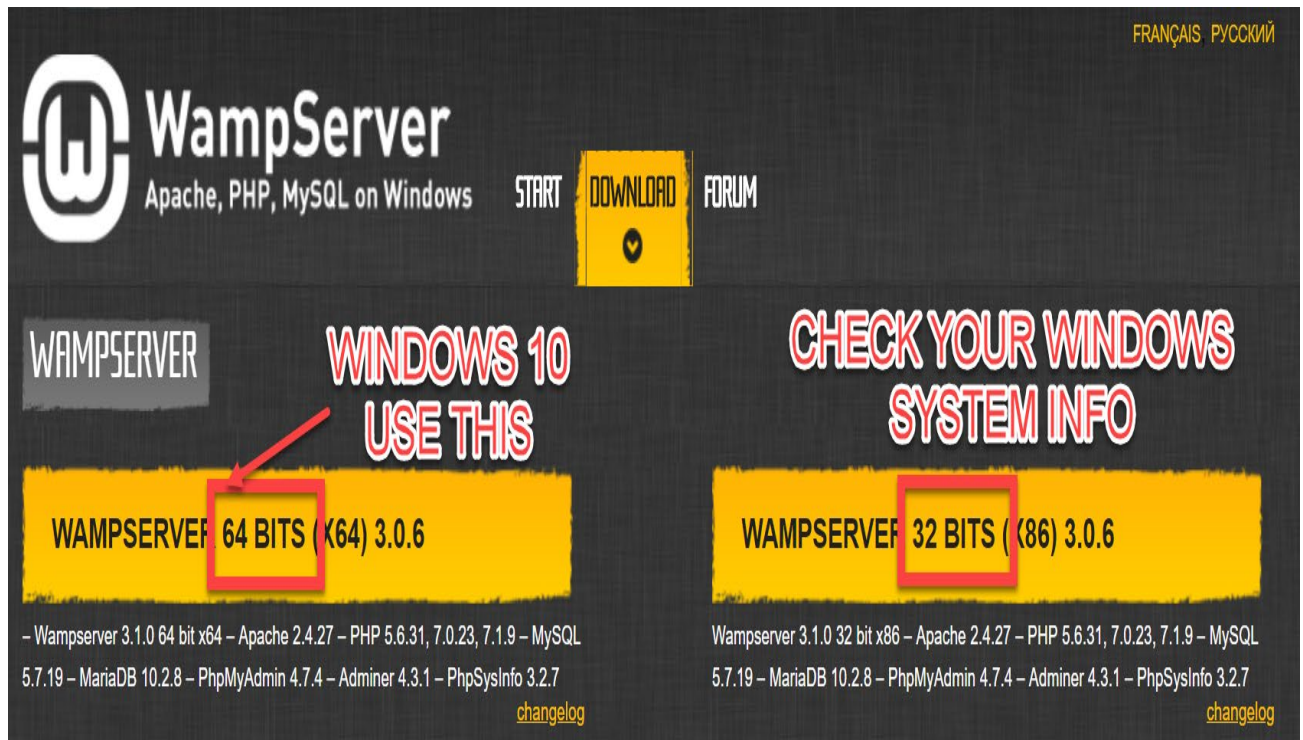
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## Visit & Download WAMP Server

**Step 1:** Visit WAMP Site – <http://www.wampserver.com/en/>

**Step 2:** Click on Download from Menu

**Step 3:** Install **64-bit** OR **32-bit** based on your Windows Machine.



**Step 4:** Instructions Page. Click on the Download Link to download the WAMP Server.

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### DOWNLOAD WAMPSERVER 64 BITS (X64) 3.0.6

### READ INSTRUCTIONS

Wampserver is available for free (under the GPL license). You can fill up this form that will enable us to send you the Alter way Training news, publishing society, as well as all the informations linked to Wapserver evolutions. If you don't wish it, you can [download directly](#).

**WARNING :** Don't Use previous WampServer Extensions/Addons. There are no more compatible with the new wampserver version's (VC11)

**WARNING :** Vous devez avoir installé Visual Studio 2012 : VC 11 vcredist\_x64/86.exe

Visual Studio 2012 VC 11 vcredist\_x64/86.exe : <http://www.microsoft.com/en-us/download/details.aspx?id=30679>

**WARNING :** Do not try to install WampServer 2 over WAMP5.

If WAMP5 is installed on your computer, save your data, uninstall it and delete the WAMP5 directory before installing WampServer 2.

**WARNING :** All the components of the v2.2 WampServer stack have been compiled with VC9 version of Microsoft compiler.

Earlier versions of Wampserver have been made with VC6 version of Microsoft compiler.

So, You can't mix components of 2.2 stack with previous version of Wampserver Stack.

If you do it you will get an instable Wampserver.

CLICK THIS TO DOWNLOAD

#### Step 5: Install the supported Libraries.

**WARNING :** Vous devez avoir installé Visual Studio 2012 : VC 11 vcredist\_x64/86.exe

Visual Studio 2012 VC 11 vcredist\_x64/86.exe : <http://www.microsoft.com/en-us/download/details.aspx?id=30679>

#### Step 6: It will redirect to sourceforge.net and download it from there.

File Name should be – **wampserver3.1.3\_x64.exe**

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# 1 PHP Basics

Home / Browse / Development / WWW/HTTP / HTTP Servers / WampServer / Files

The "/WampServer 3/WampSe..php5.6.25-7.0.10.exe" file could not be found or is not available. Please select another file.

Brought to you by: [alterway](#), [hervel](#)

**wampserver3.1.3\_x64.exe is the file name**

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**Download Latest Version**  
wampserver3.1.3\_x64.exe (352.3 MB)

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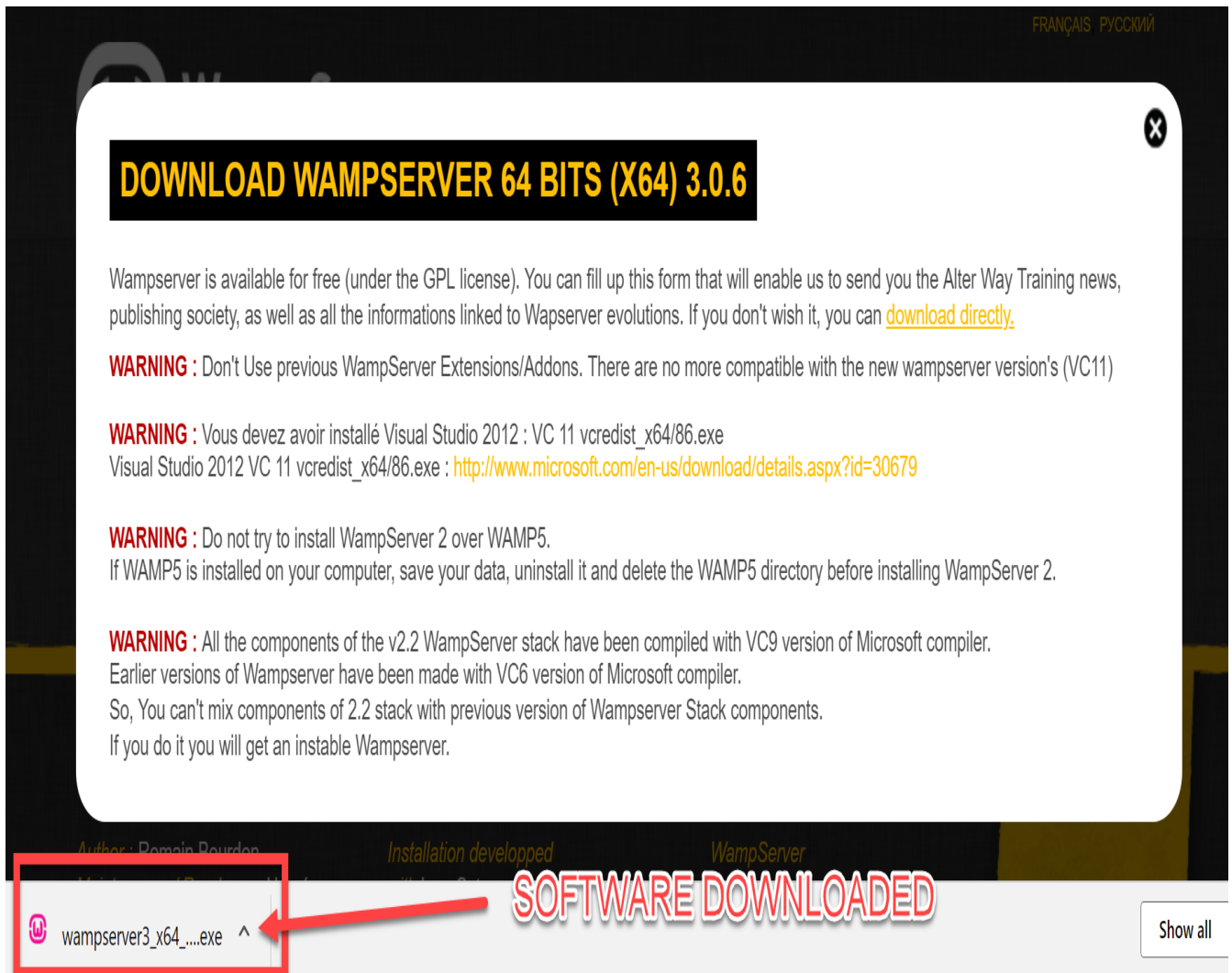
No, Thank you

Name ▾ Modified ▾ Size ▾ Downloads / Week ▾

**Step 7:** WAMP Server is downloaded.

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## 1 PHP Basics



## Install WAMP

**Step 1:** Locate the downloaded Software "wampserver3.1.3\_x64"

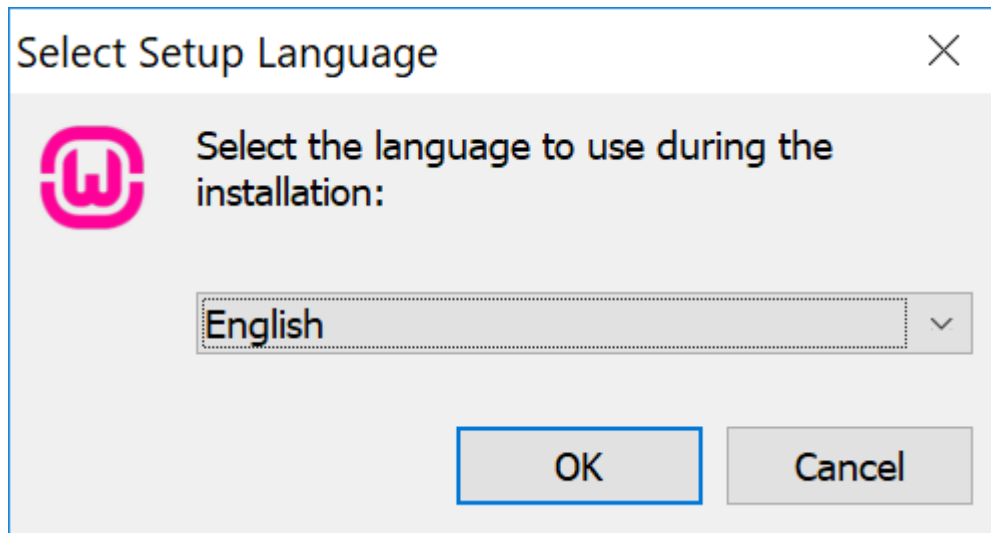


It will have this icon. Even you can find this icon in the system tray once the software is installed.

**Step 2:** Double Click to Start the Installation process.

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## 1 PHP Basics

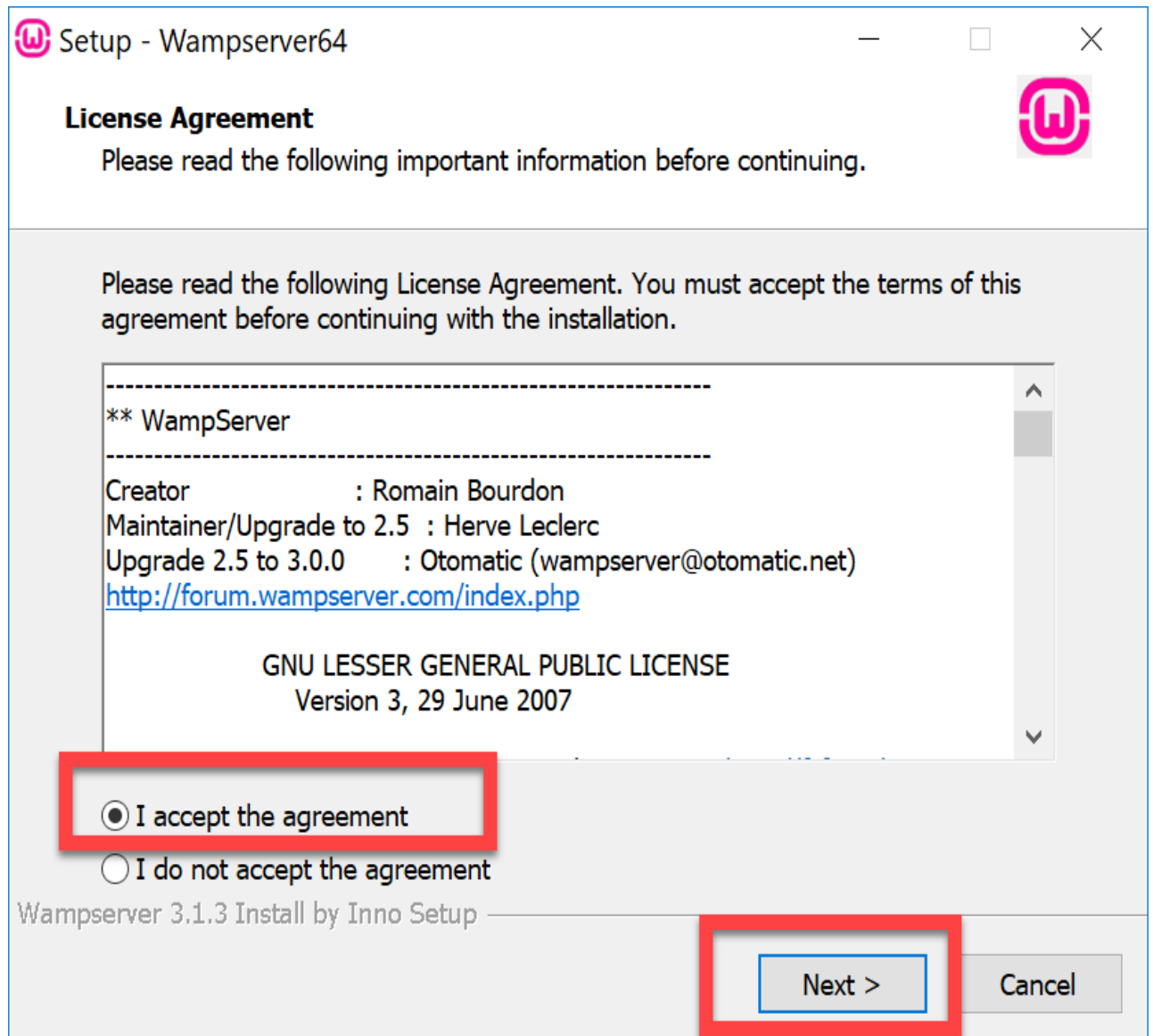


**Step 3:** Accept the Agreement. and Click Next.

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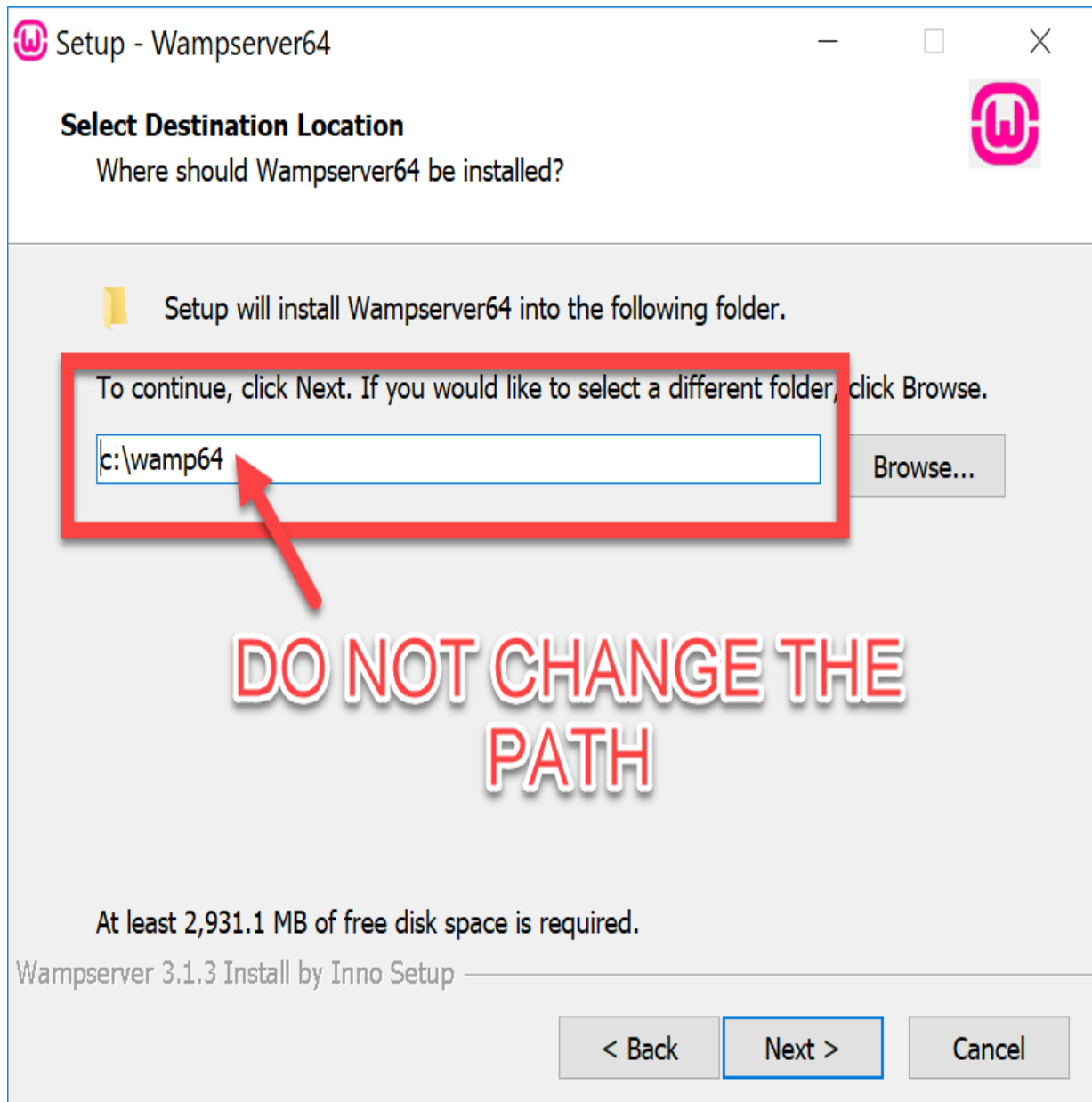
## 1 PHP Basics



**Step 4:** Do not change the default path. It will be installed in C:\WAMP64

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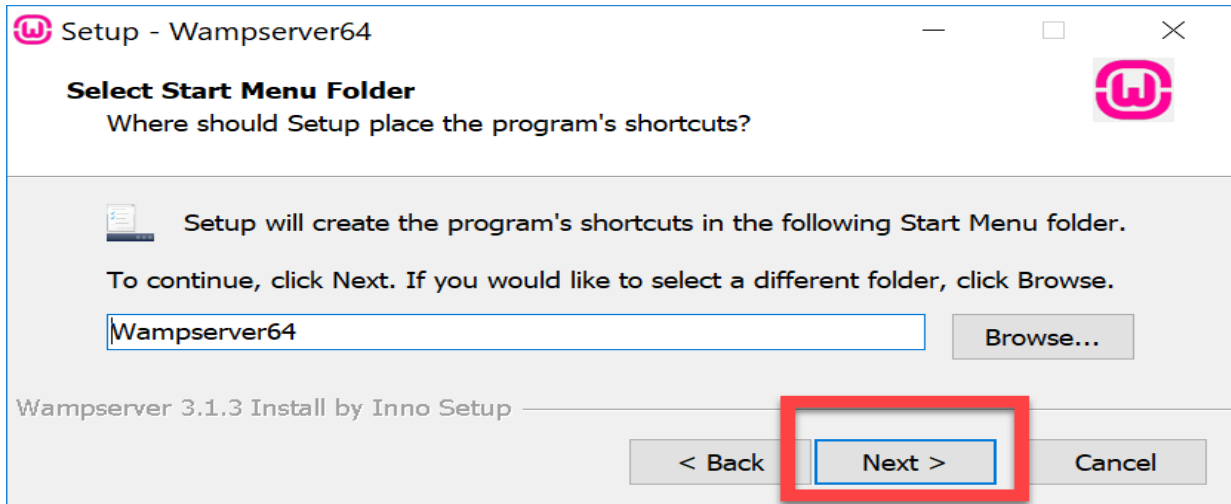
## 1 PHP Basics



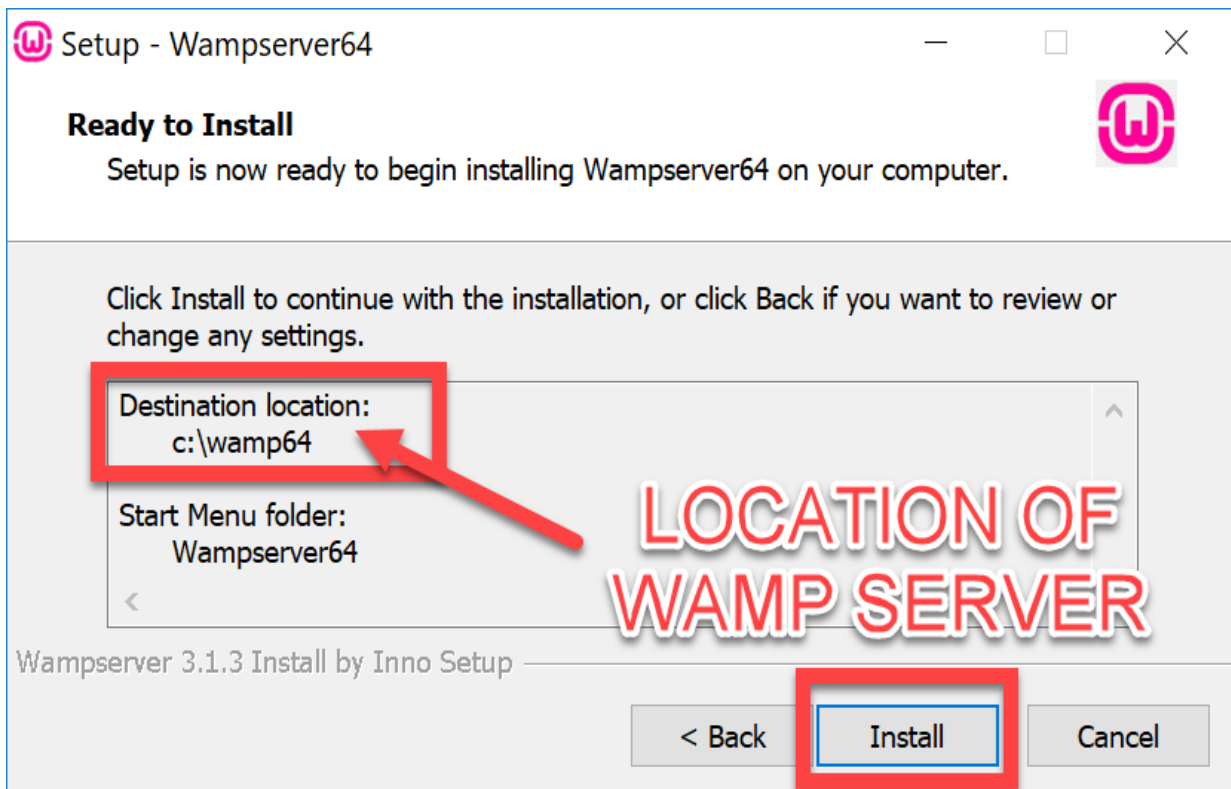
**Step 5:** Click Next

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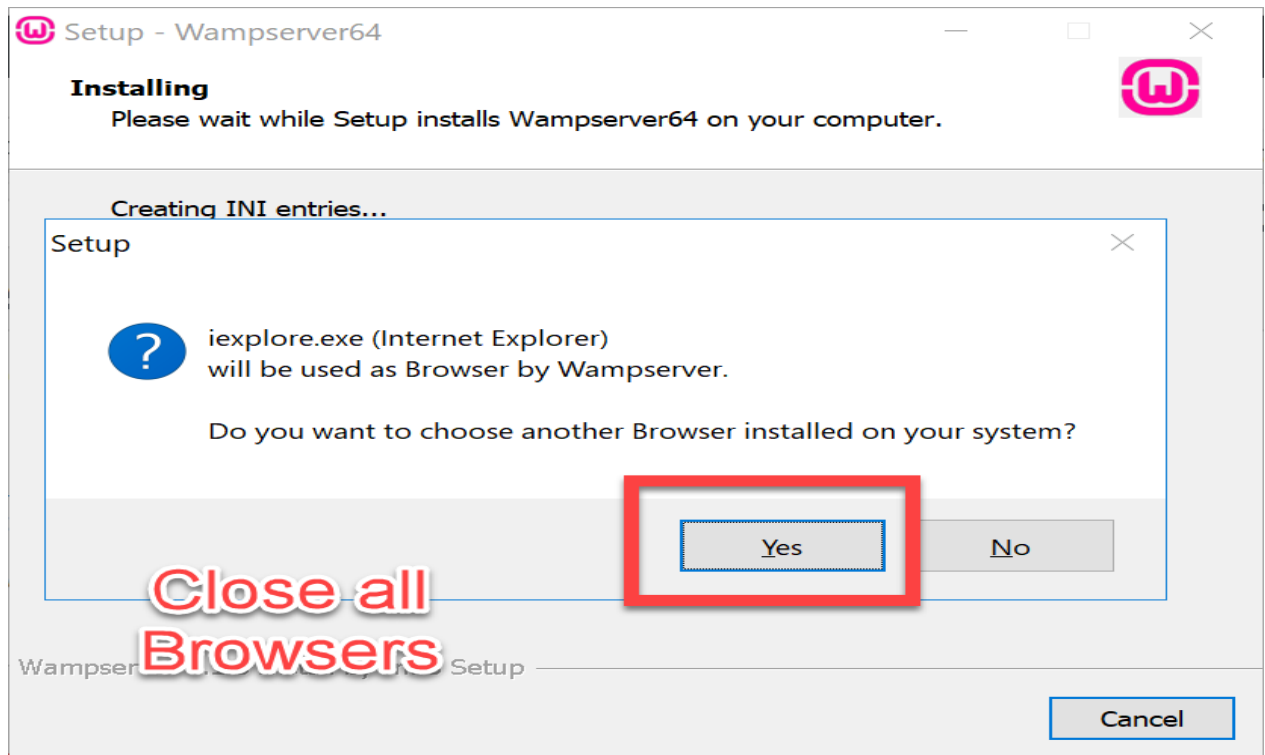
**Step 6:** Verify the path where the software is installed and click on Install.



**Step 7:** Close all the Browsers and Select the Default Browser.

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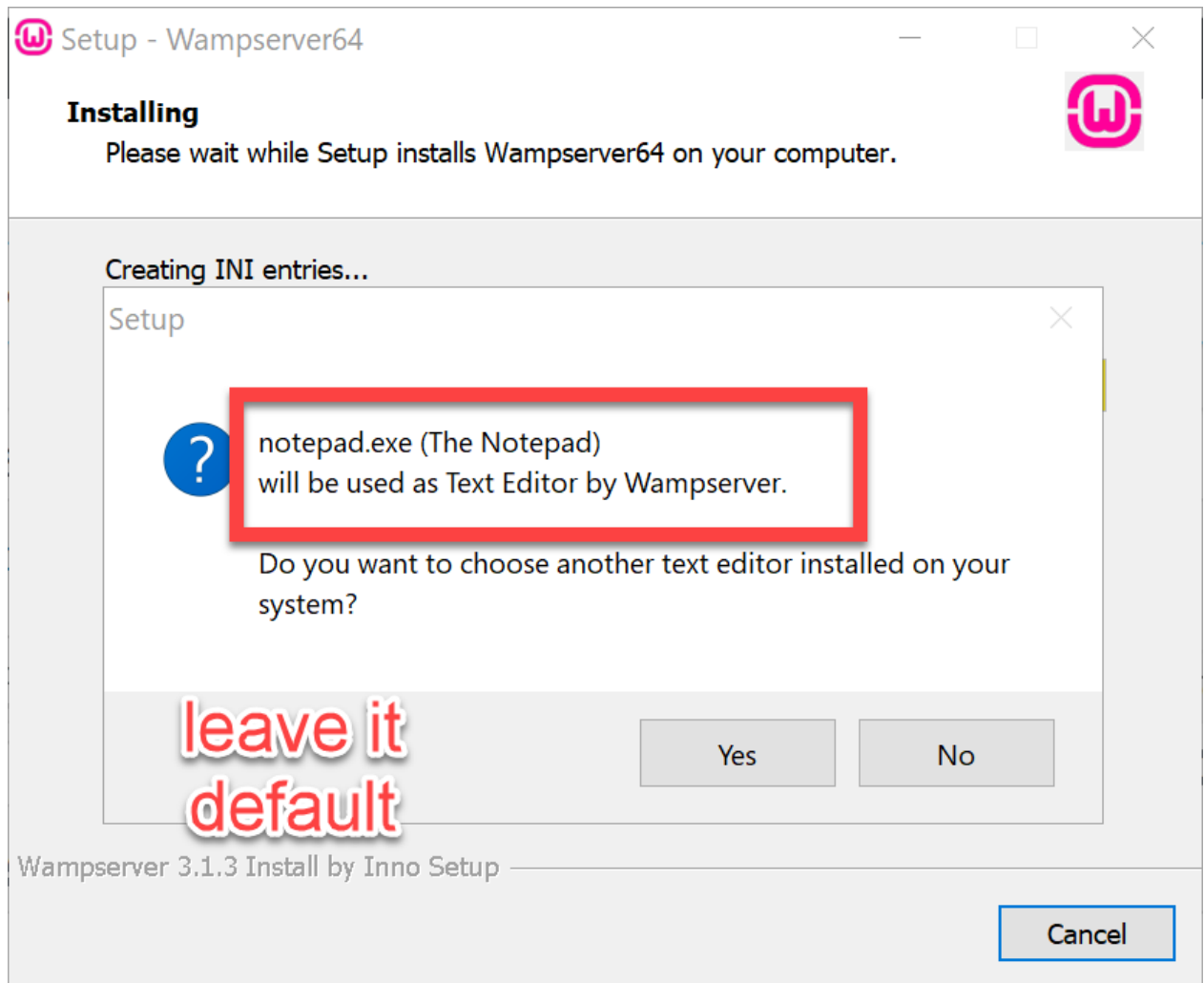
# 1 PHP Basics



**Step 7:** Select the Notepad

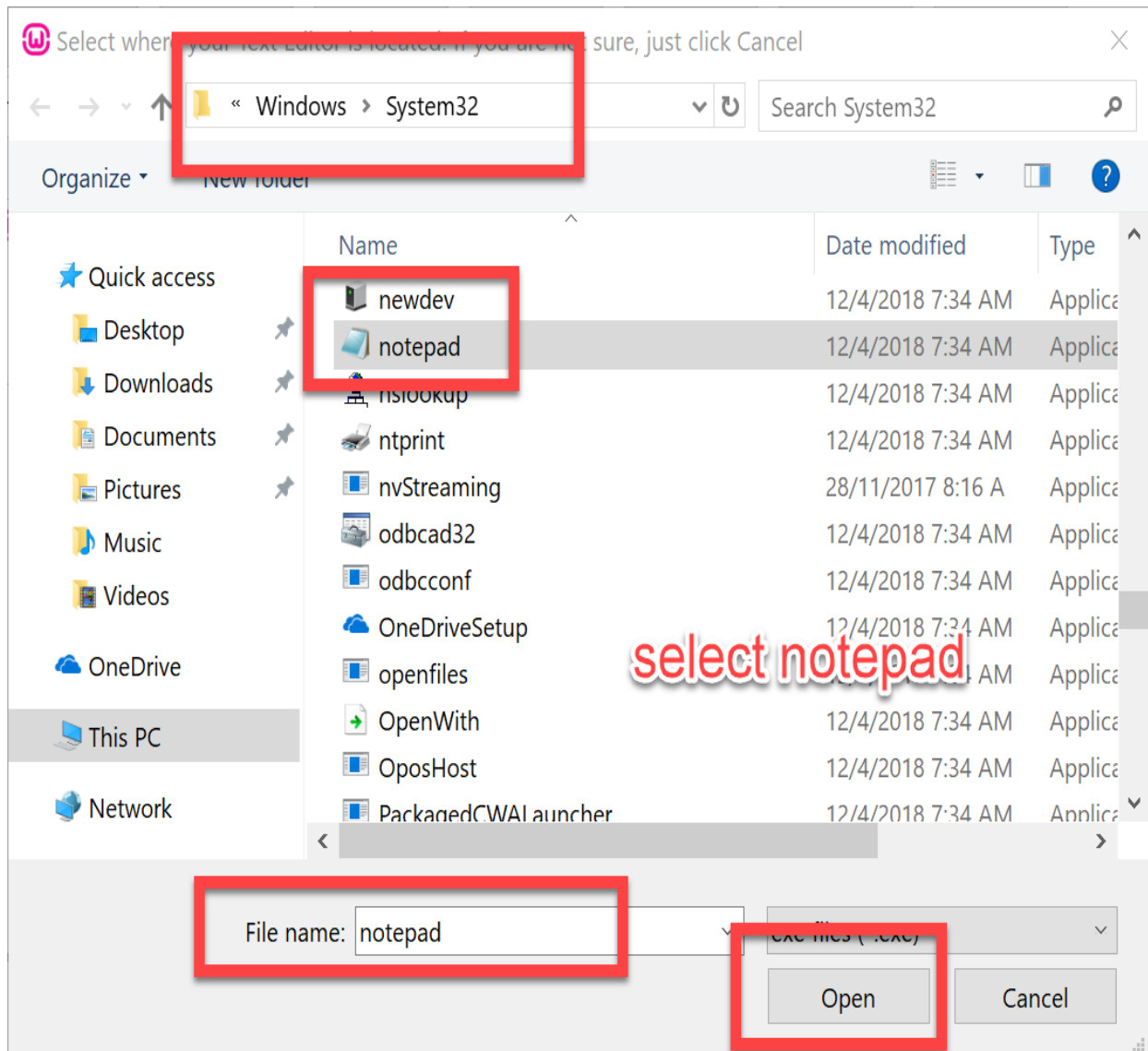
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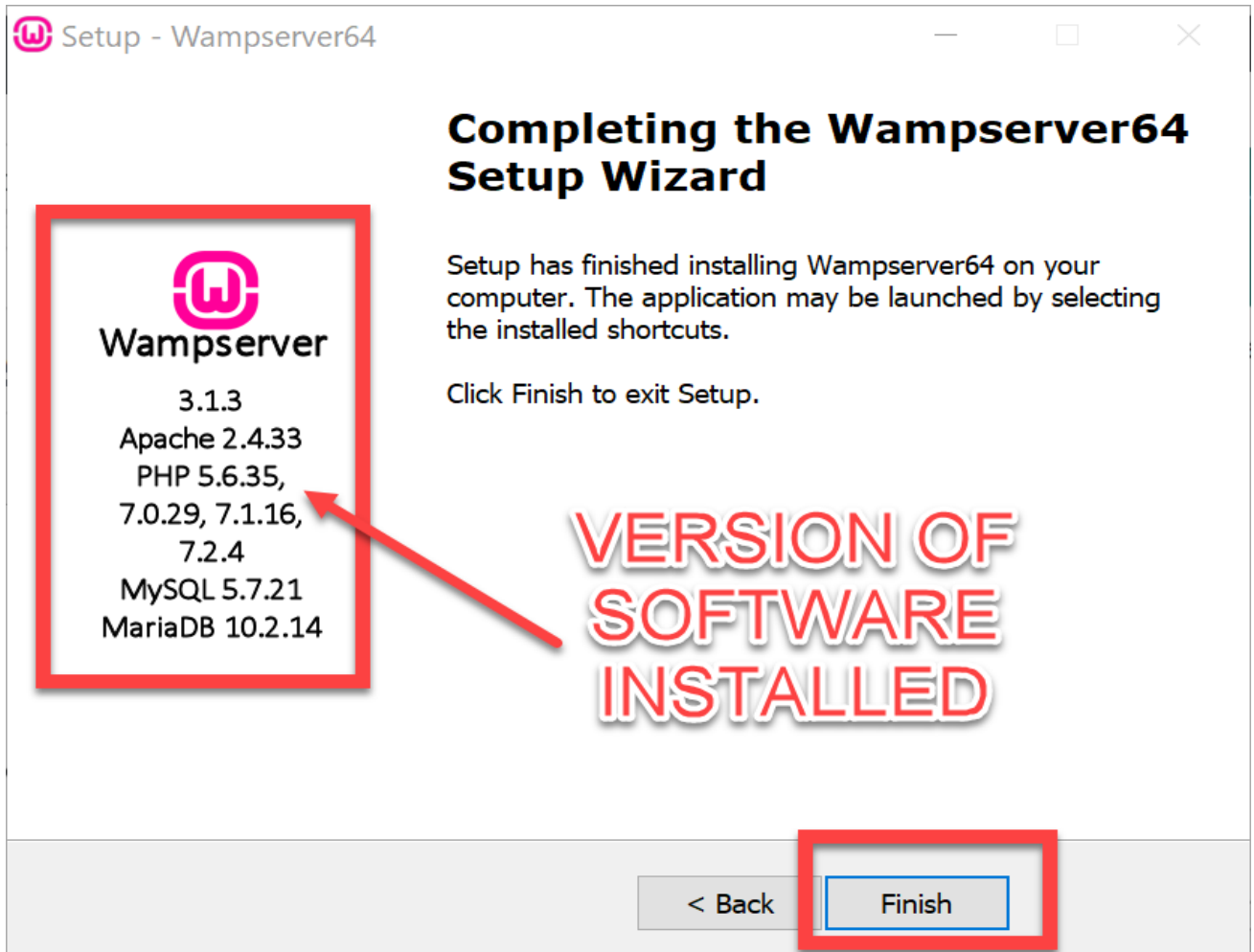
# 1 PHP Basics



**Step 8:** Click Finish and Note the Software Versions.

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## 1 PHP Basics



## Install Microsoft VC Checker

Next Step is to check if the Microsoft VC++ Package is missing from windows system.

**Step 1:** Download the VC Checker Software.

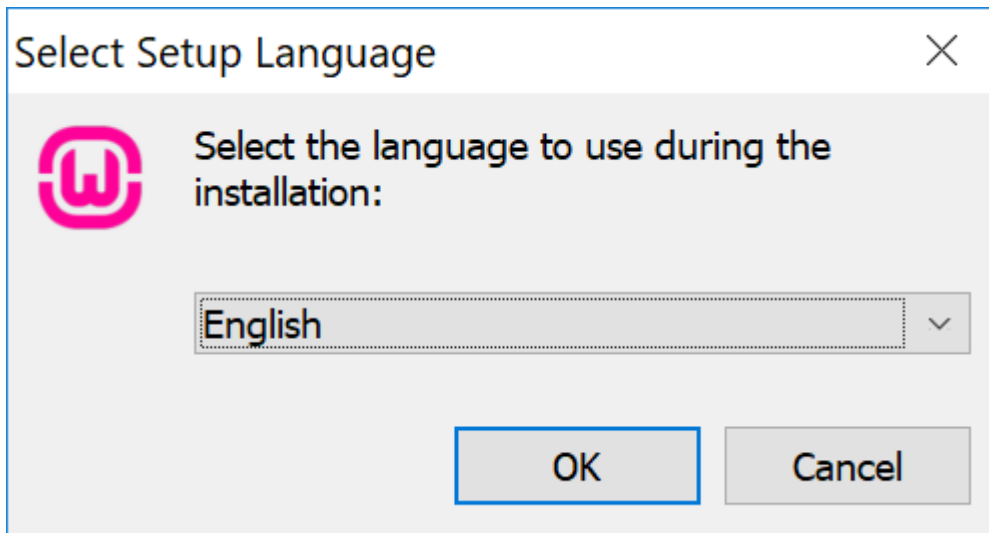
[http://wampserver.aviatechno.net/files/tools/check\\_vcrist.exe](http://wampserver.aviatechno.net/files/tools/check_vcrist.exe)

**Step 2:** It will download the `check_vcrist.exe` software

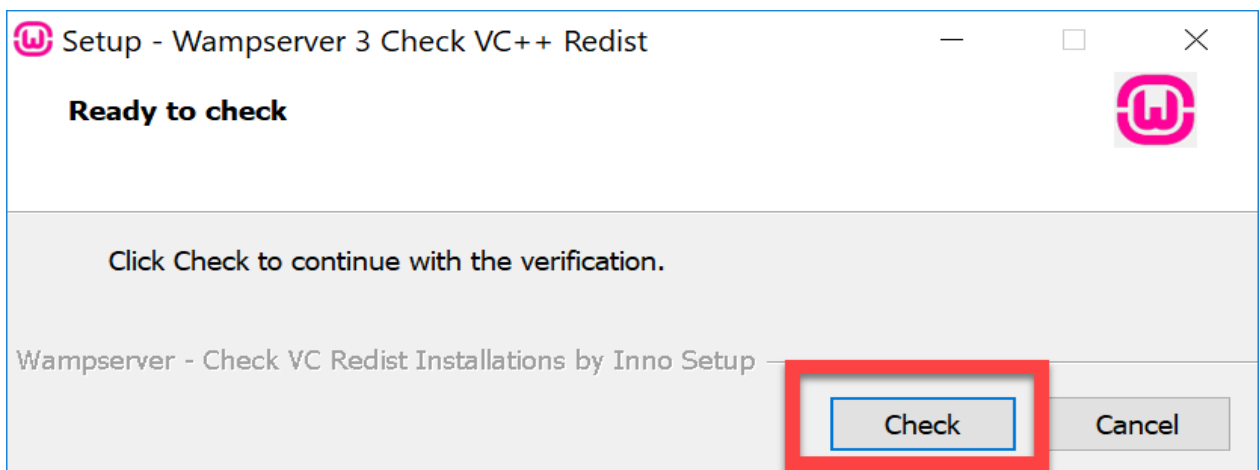
**Step 3:** Install `check_vcrist.exe` software.

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## 1 PHP Basics



**Step 4:** Click on Check

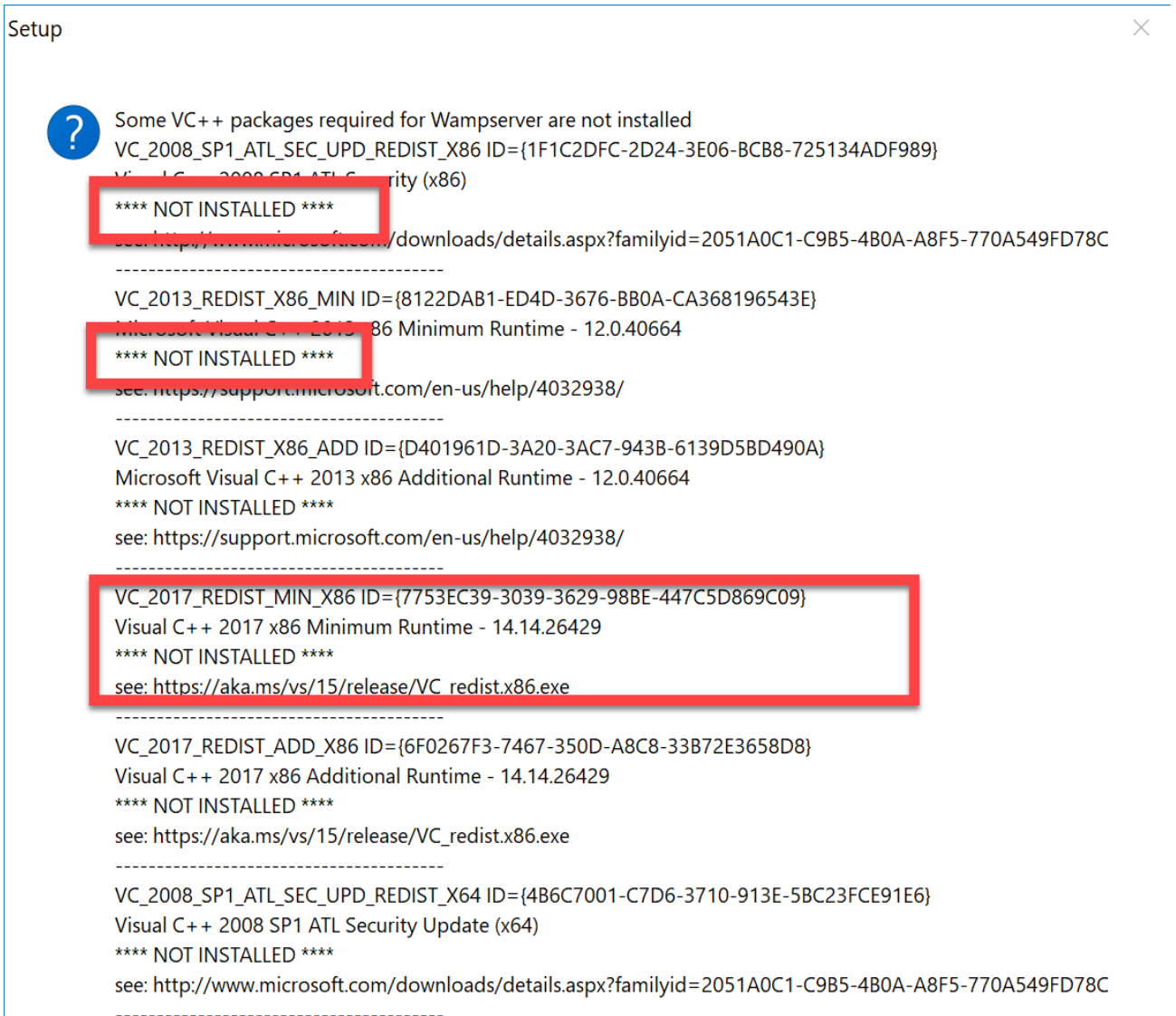


**Step 5:** Install the VC and then Run Again to make sure you all the supported Libraries.

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# 1 PHP Basics



Download from here:

<https://support.microsoft.com/en-us/help/2977003/the-latest-supported-visual-c-downloads>

## Verify WAMP

WAMP Server is installed in "C:\wamp64" folder.

**Step 1:** Run the WAMP Server

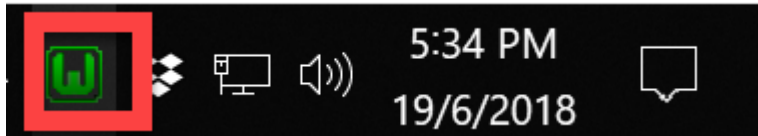
Run the file: C:\wamp64\wampmanager.exe

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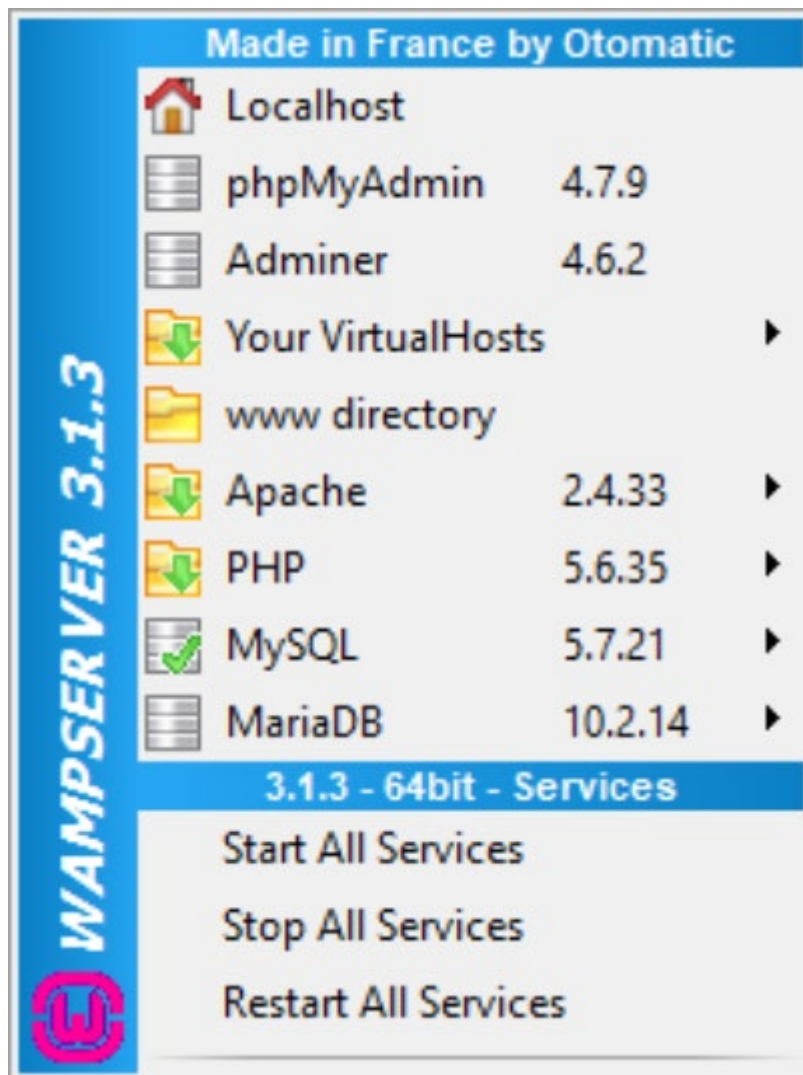
## 1 PHP Basics

Goto C:\wamp64 folder and run the  
WAMP Server – wampmanager.exe

See the Server running with GREEN color icon in the system tray.



Click on the ICON and you should see this menu.



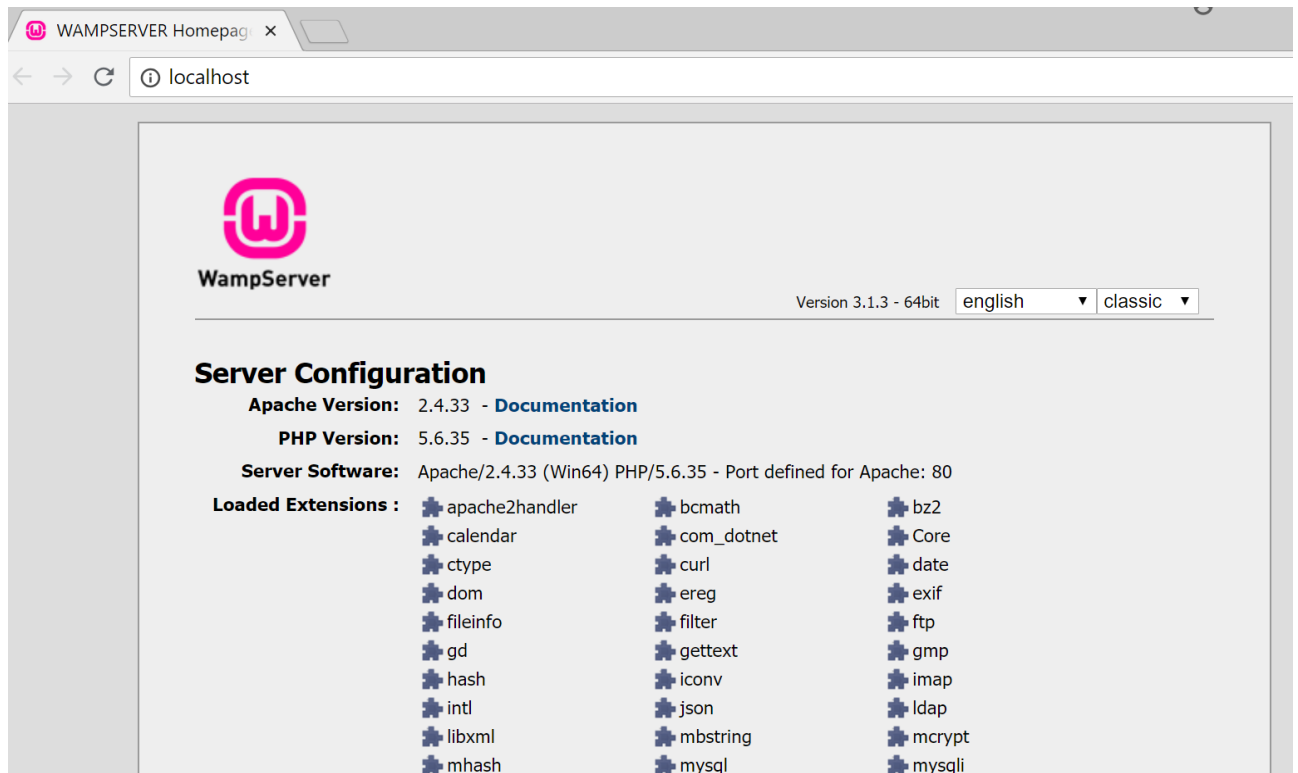
**Step 2:** Click on Localhost on the Menu

Browser will open the URL – localhost

You should see this page.

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# 1 PHP Basics



This confirms that WAMP server is installed properly.

**Step 3:** Recheck if you have the following things working:

WAMP Icon in Green color in system tray

Click on Localhost in the WAMP menu

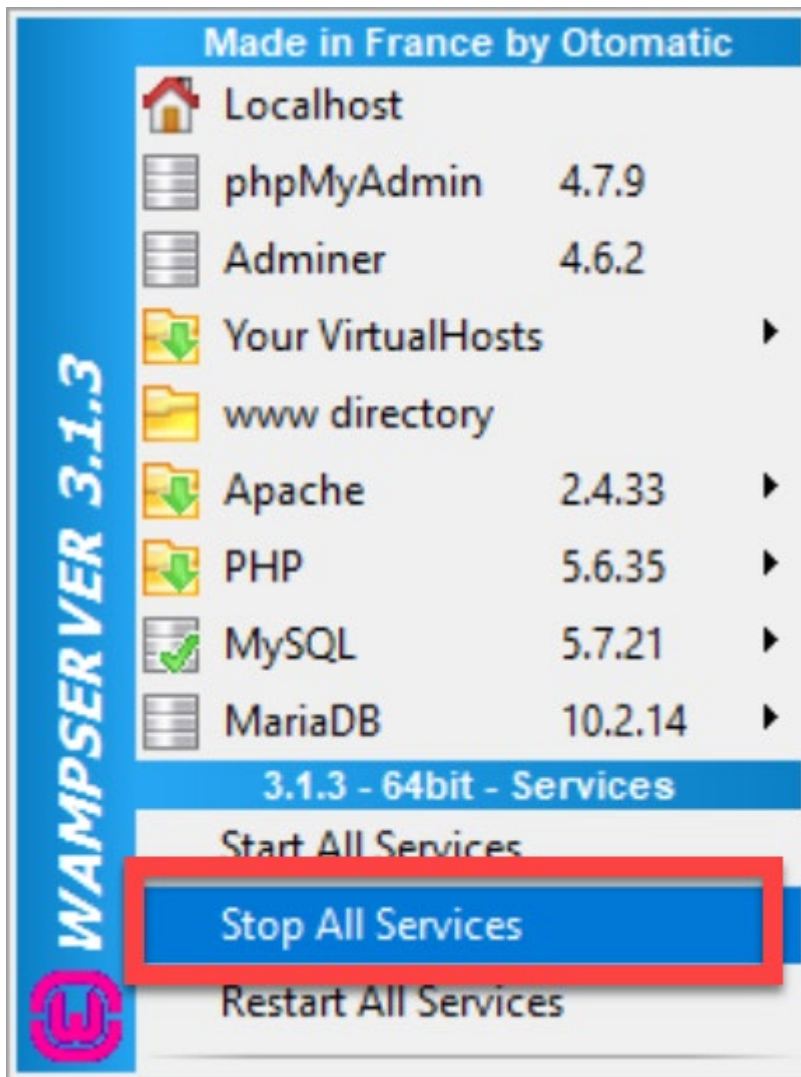
WAMP displays the localhost page correctly.

## Stop WAMP

**Step 1:** Click on the System Tray WAMP Icon and Select Stop Services.

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## 1 PHP Basics



Step 2: WAMP Icon Turns to RED.

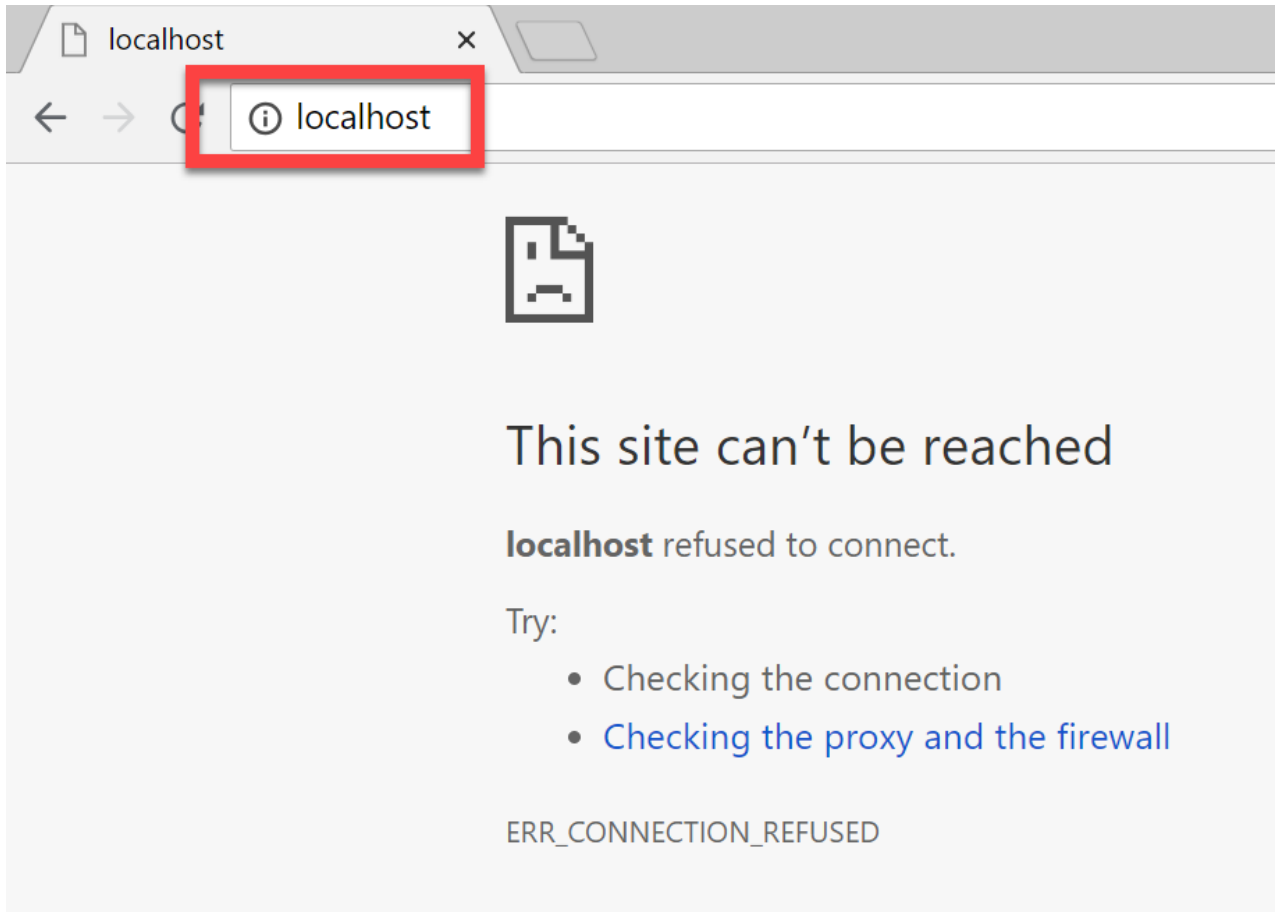


Step 3: Type "localhost" in the Browser URL

This should show error page in chrome.

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## 1 PHP Basics



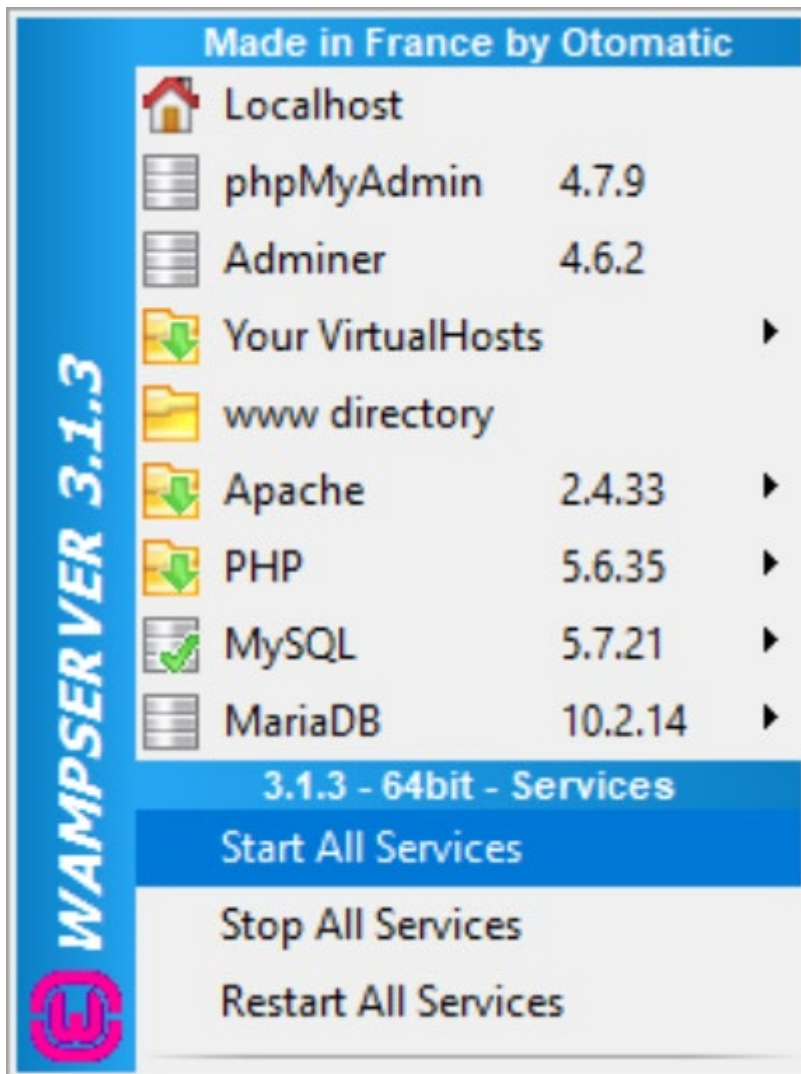
This confirms that WAMP Server is Stopped.

## Start WAMP

**Step 1:** Click on the System Tray WAMP Icon and Select Star Services.

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## 1 PHP Basics



Step 2: WAMP Icon Turns to GREEN

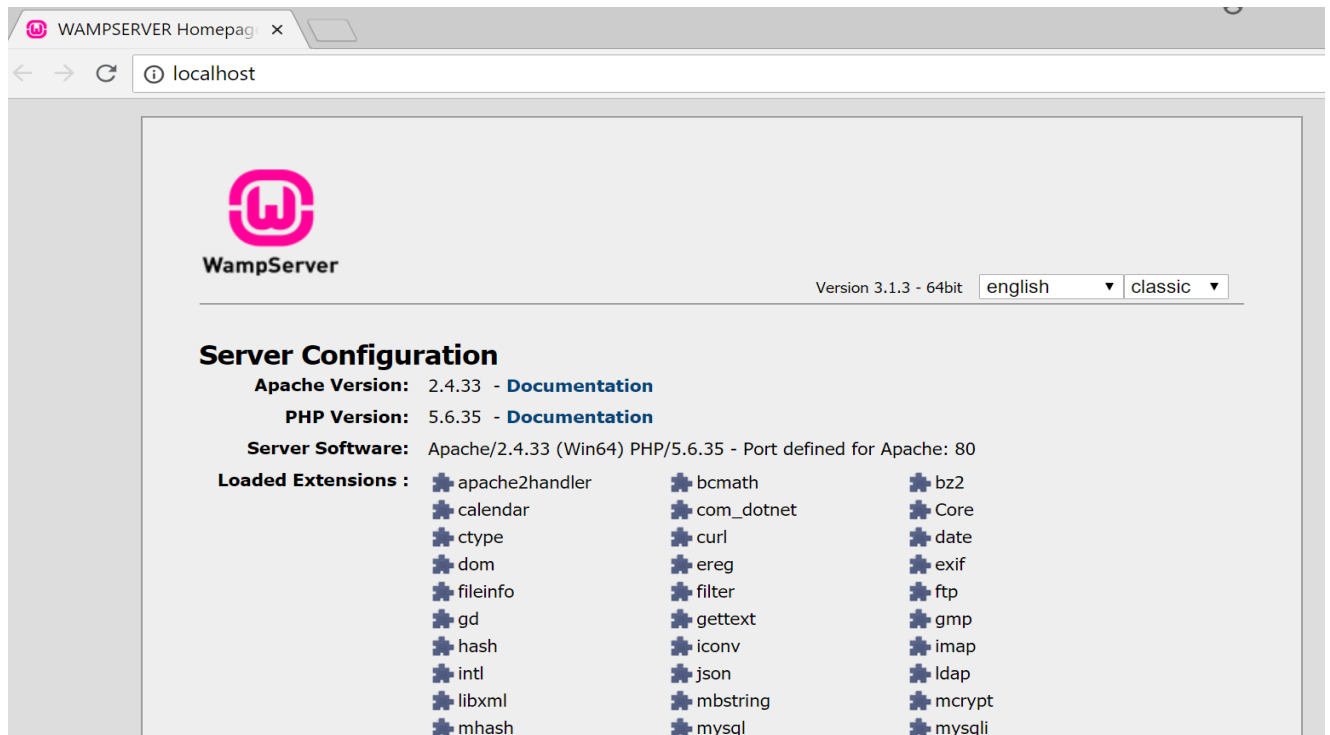


Step 3: Type "localhost" in the Browser URL

This should show the home page for localhost

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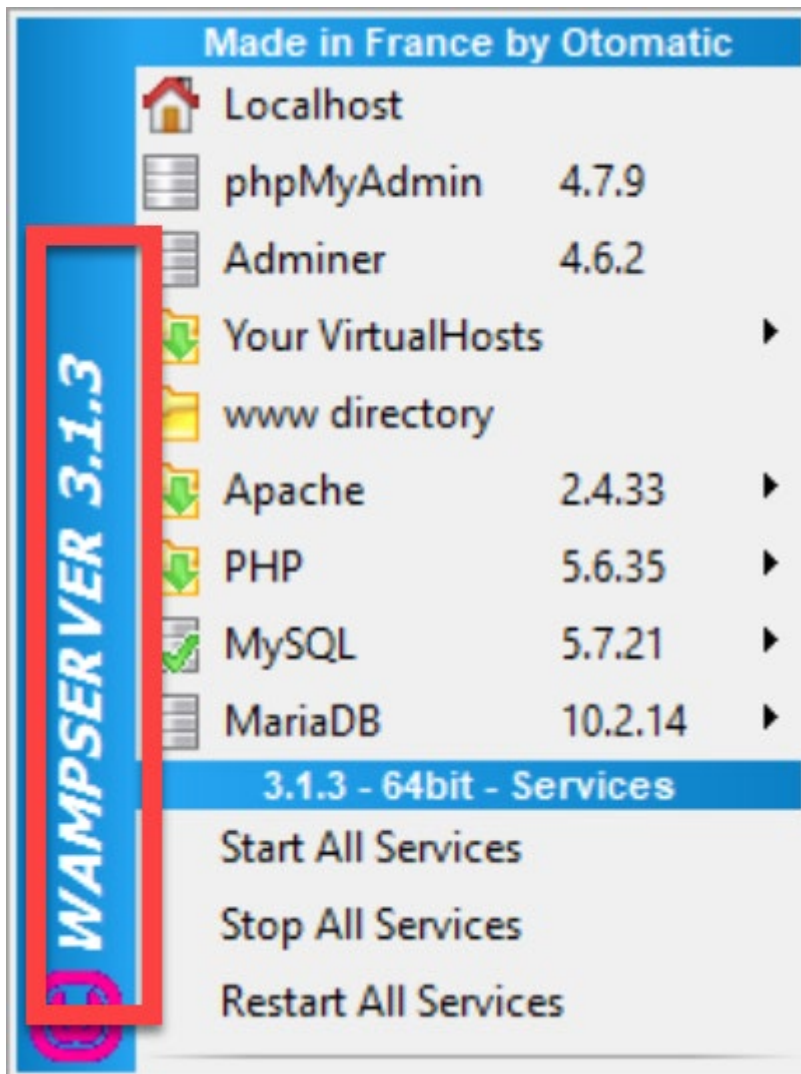
# 1 PHP Basics



## Check WAMP Version

Open the WAMP Menu from System Tray and you can find the WAMP Version.

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## Verify the WAMP Folder

You should have this two folders in C:\

C:\wamp64

C:\wamp64\www

WAMP Log file is inside this folder:

C:\wamp64\logs

## Check PHP Version

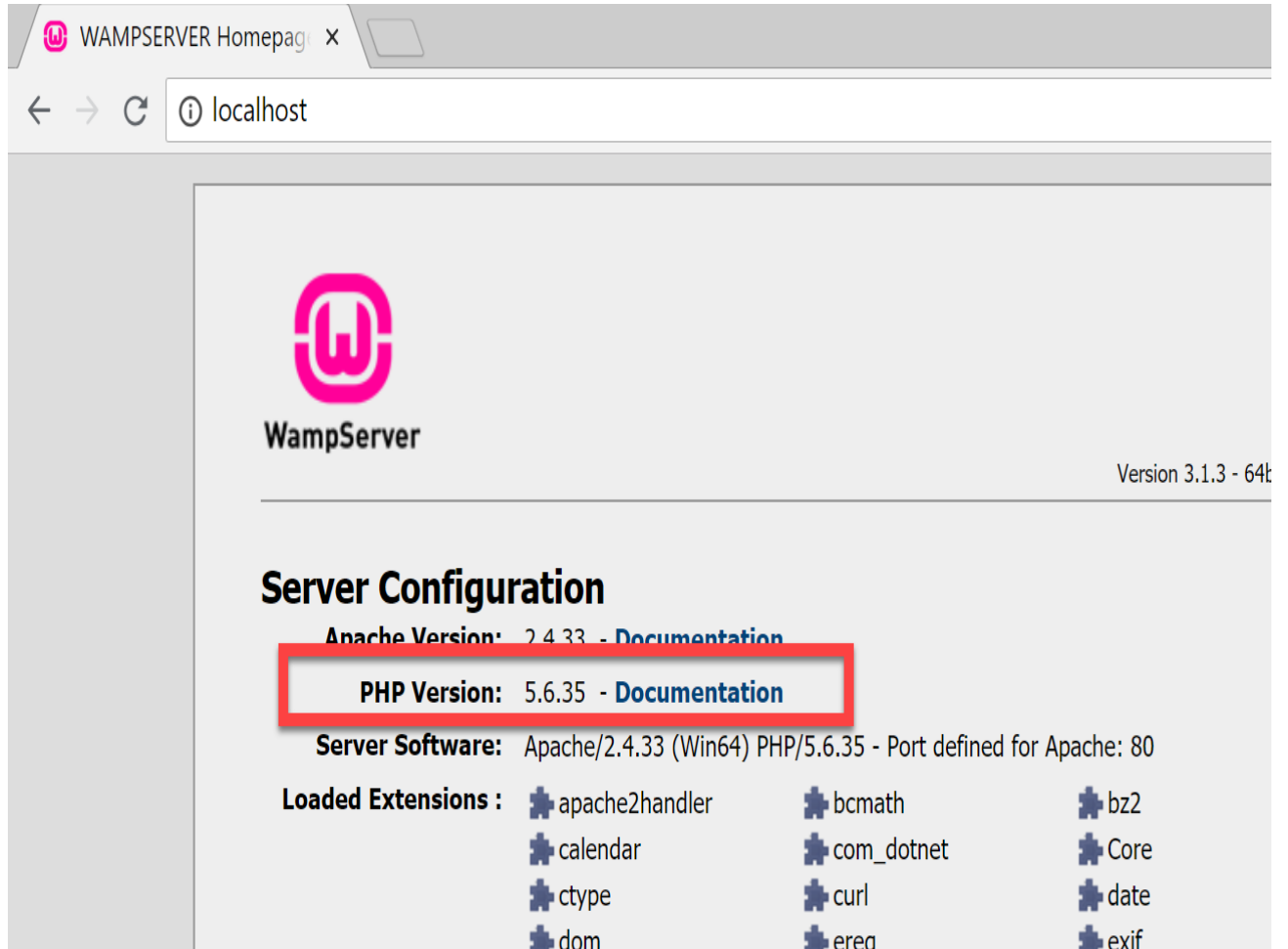
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## 1 PHP Basics

You can check the PHP version by opening the localhost when WAMP server is running.

It will show the PHP Version.



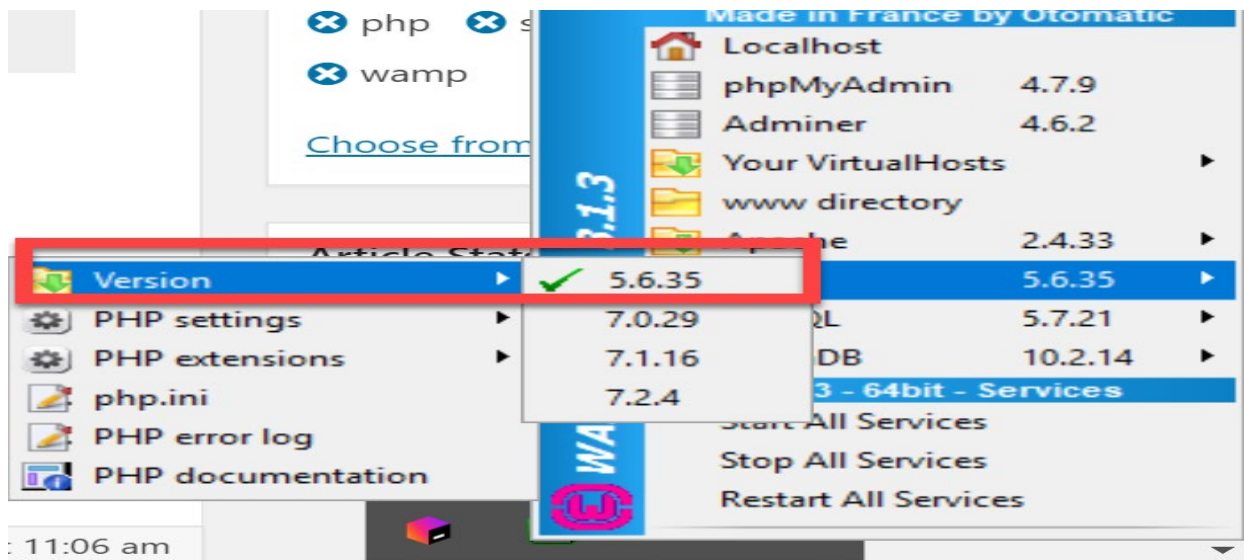
Change the PHP Version

Open the WAMP Menu -> PHP -> Versions

You can change the PHP version from here.

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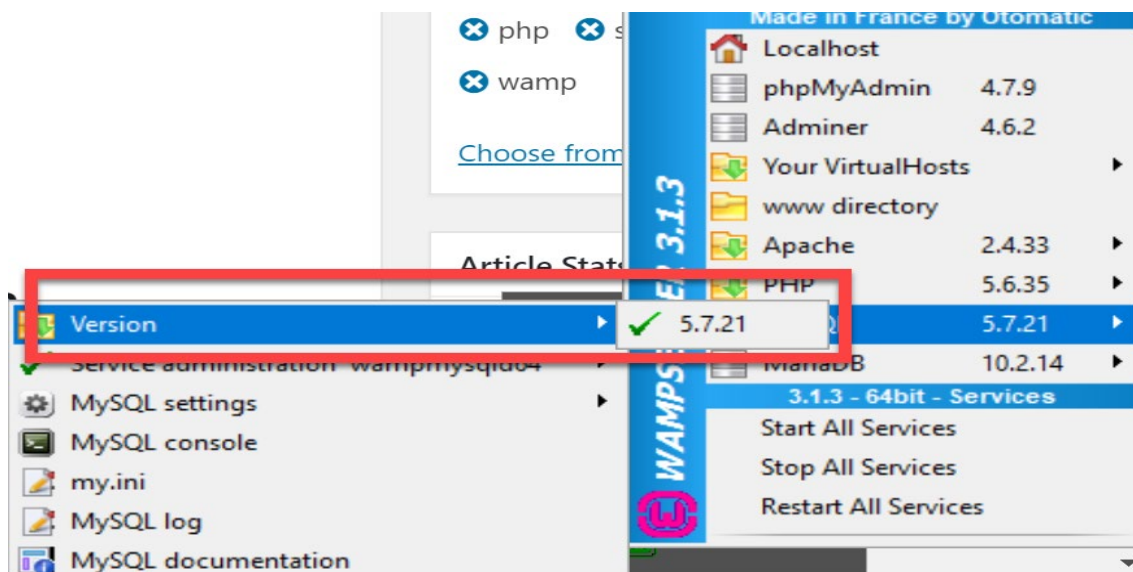
## 1 PHP Basics



### Check MySQL Version

Open the WAMP Menu -> SQL -> Versions

You can change the SQL version from here.

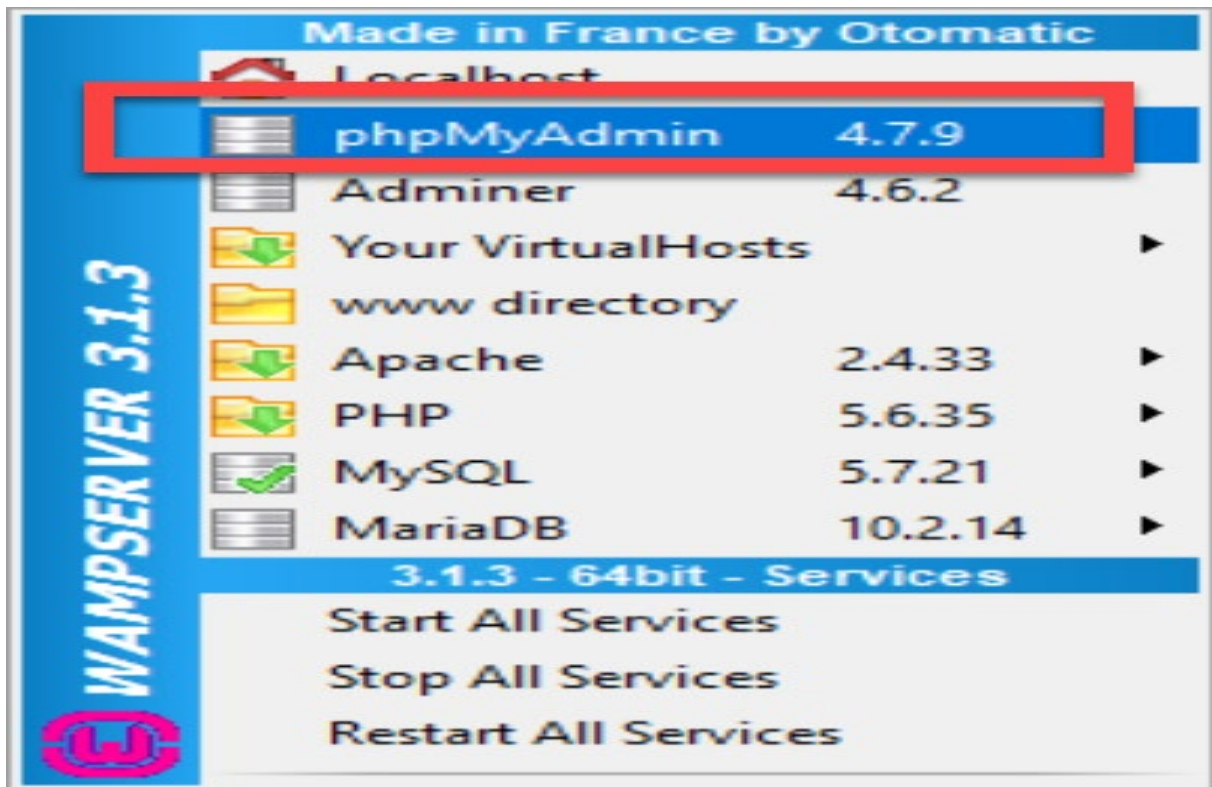


### Check phpMyAdmin Version

Open the WAMP Menu -> phpMyAdmin

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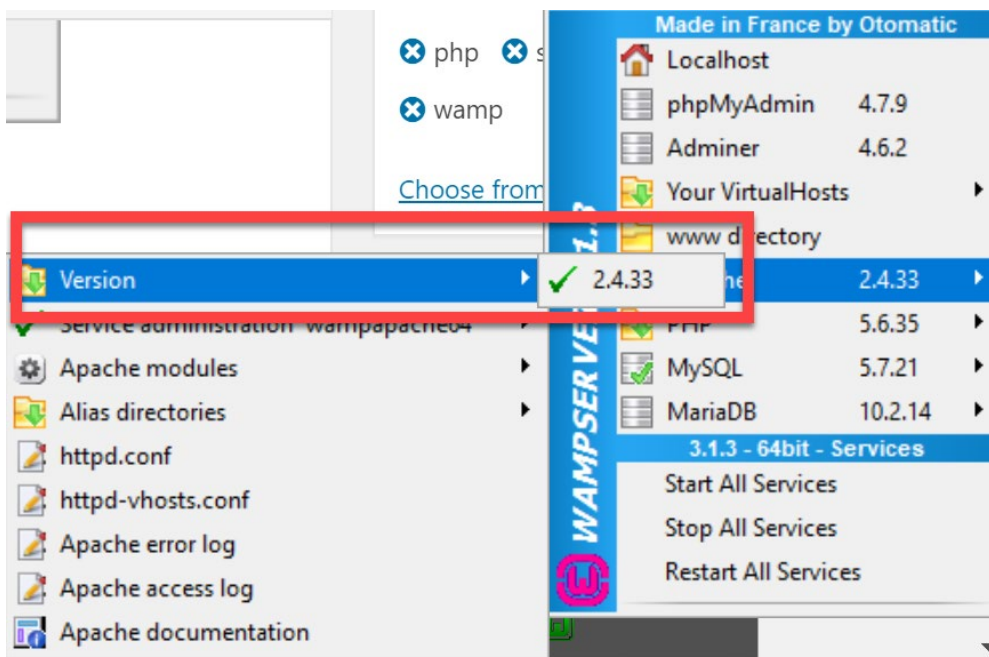
## 1 PHP Basics



## Check Apache HTTP Version

Open the WAMP Menu -> Apache-> Versions

You can change the Apache version from here.



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### 1.2 Echo

#### First PHP Program

php file name should end with **“.php”** extension

You should write the php code with in this starting and ending symbols.

```
<?php
```

```
?>
```

**<?php** – tells server to interpret the code from here

**?>** – server will stop interpreting the code.

You should write the PHP code inside this block

```
<?php
```

```
//PHP CODE
```

```
?>
```

#### SYNTAX:

```
<body>
```

```
<?php
```

```
?>
```

```
</body>
```

All the statements you write between the php block should end with **“;”**

**Add semicolon ‘;’** at the end of the line.

Step 1: Create the php file

Goto Folder: C:\wamp64\www

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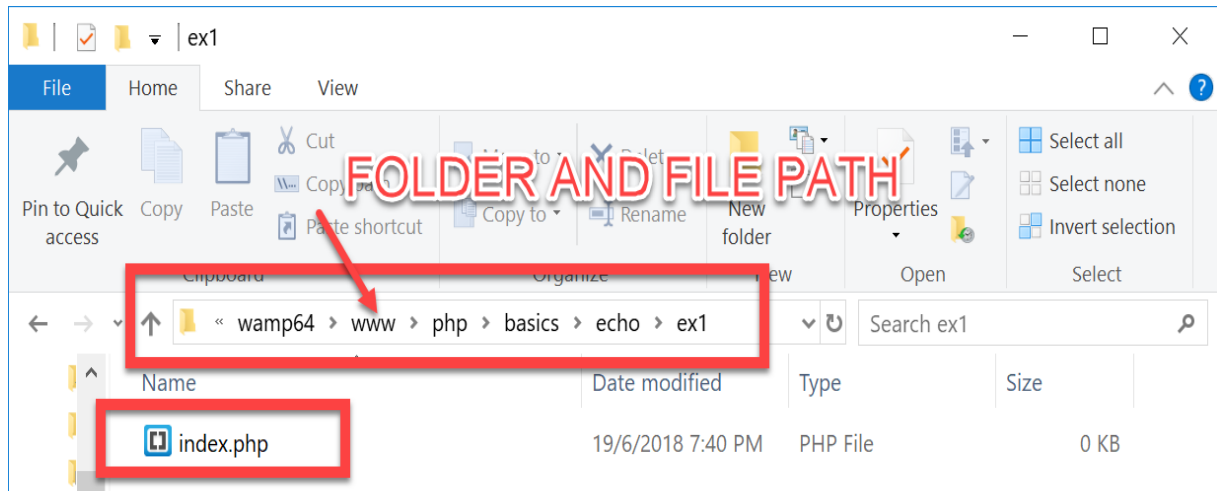
# 1 PHP Basics

Create Folder: \php\basics\echo\ex1

Final Folder: C:\wamp64\www\php\basics\echo\ex1

**Create file with name:** index.php

**Folder:** C:\wamp64\www\php\basics\echo\ex1



## Step 2: Add the code in index.php

You can use the Brackets Software to open the file.

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta name="description" content="Page Description">
  <title>Page Title</title>
</head>
<body>
  <h1>Heading</h1>
  <p>Paragraph Text</p>
  <!-- PHP Code -->
```

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## 1 PHP Basics

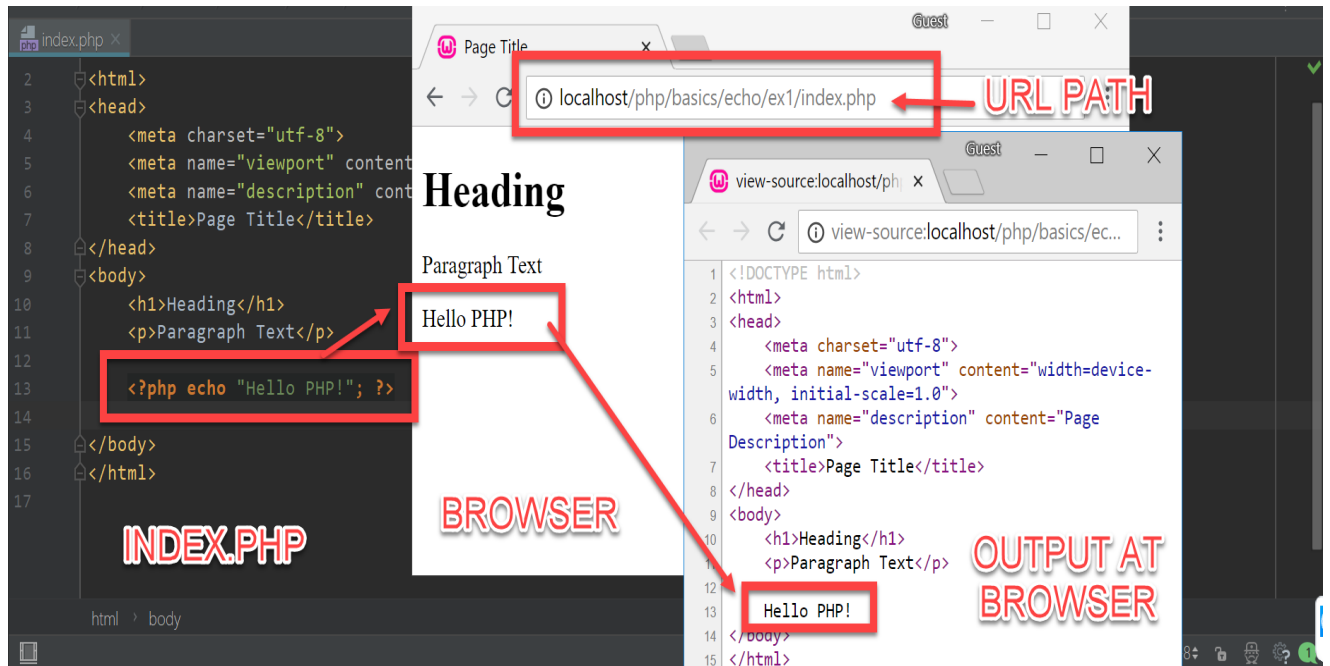
```
<?php echo "Hello PHP!"; ?>
```

```
</body>
```

```
</html>
```

### Step 3: Access the index.php from browser

Type the URL: `http://localhost/php/basics/echo/ex1/index.php`



### Step 4: Understanding echo

**echo** is a function to print the data on the browser.

There is no parenthesis () required to call the method and pass data to the method.

echo "some text to print";

echo 'some text to print';

You use single quote or double quotes and statement should end with semi colon ";".

You even use **print** function

print "some text to print";

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# 1 PHP Basics

print 'some text to print';

## Sample Example

### [Download the Example](#)

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <meta name="description" content="Learning PHP">
    <title>Echo - PHP</title>
</head>
<body>
    <h1>How to Print on the Browser with PHP</h1>
    <p>You can use echo and print functions to print!</p>

    <!-- PHP Code -->
    <?php echo "This is message you see printed with echo function"; ?>

    <p><?php echo "I am inside the paragraph"; ?></p>

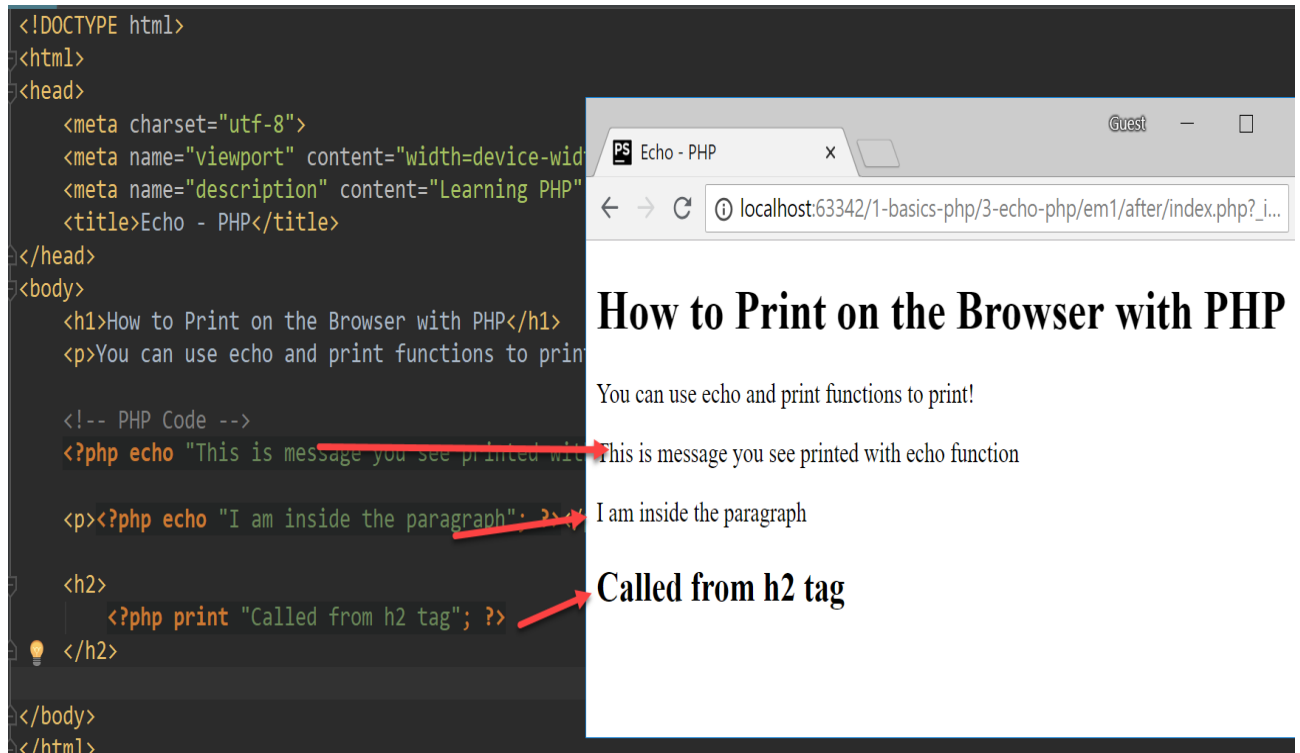
    <h2>
        <?php print "Called from h2 tag"; ?>
    </h2>

</body>
</html>
```

---

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# 1 PHP Basics



## Live Preview

### Exercise 1

### Download the Exercise 1

**Exercise 1:** Put the echo inside the `<head> <script>` tag and print `alert('This is called from php');`

See if the alert works?

localhost:63342 says

This is printed with php

OK

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# Did you saw the alert?

- 1) PHP Code Executes First at server.
- 2) Javascript executes at Browser.

## Live Preview

### Exercise 2

### Download the Exercise 2

**Exercise 2:** Write all the below HTML content using the php echo.

```
<h1>Heading</h1>
<p>Paragraph Text</p>
<ul>
  <li>Item 1</li>
  <li>Item 2</li>
  <li>Item 3</li>
</ul>
```

*I am printed with echo.*

# Heading

Paragraph Text

- Item 1
- Item 2
- Item 3

[Live Preview](#)

## 1.3 Hello Program with PHP

### Hello Program

You should know the following things:

[How to write and Execute the php Code.](#)

[How to start and stop WAMP Server.](#)

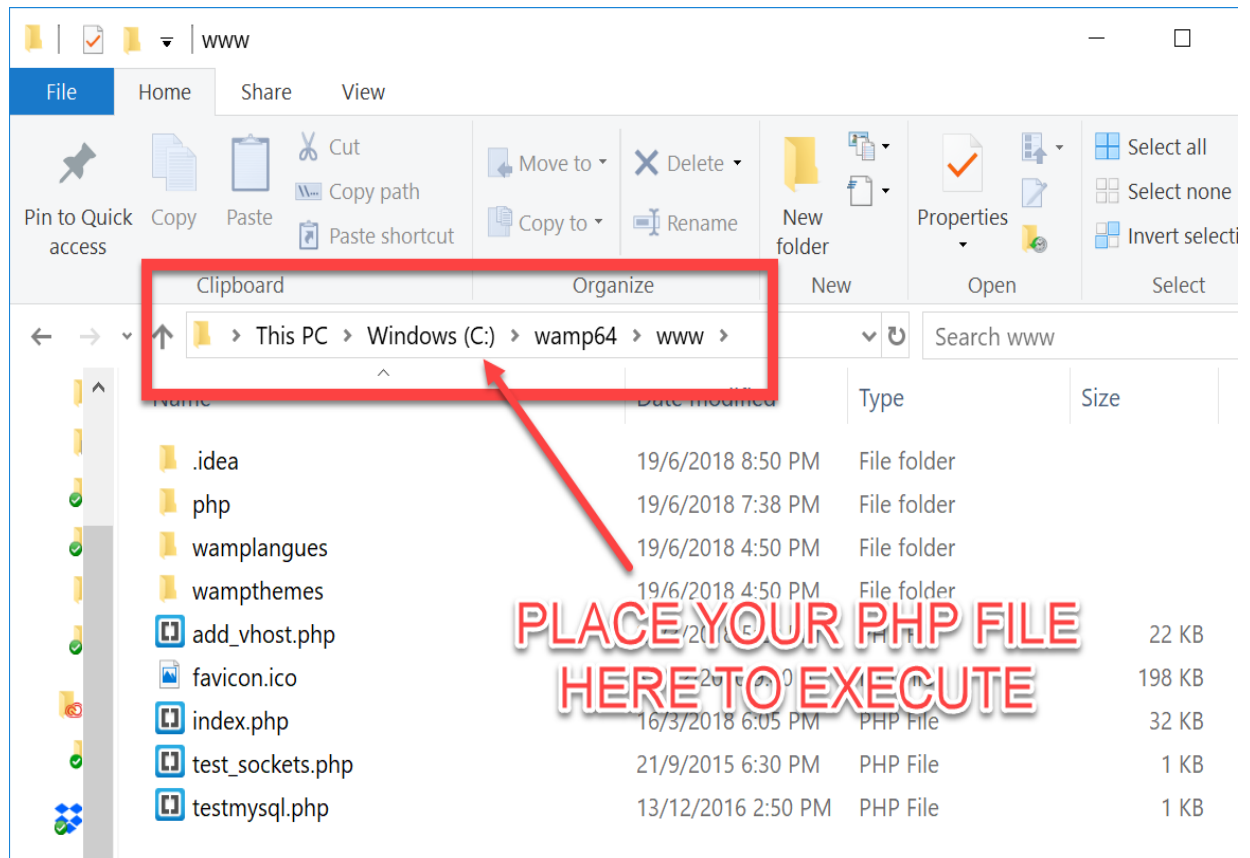
[How to view the php file from the browser.](#)

### Importance of 'www' folder in WAMP Folder

You can execute the php code only from the 'www' folder inside the c:\wamp64 folder.

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# 1 PHP Basics



Write a simple hello program with the following files:

index.php

css include

js include

Use css style file

Write one Function in the Javascript and use it.

Print some text with the php echo function.

## Sample Example

### Download the Example

index.php

```
<!DOCTYPE html>
```

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# 1 PHP Basics

```
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <meta name="description" content="Learning PHP">
    <title>Hello World Program!</title>

    <!-- Include CSS file -->
    <link rel="stylesheet" type="text/css" href="styles.css"
media="screen" />

    <!-- Include JS File -->
    <script type='text/javascript' src="scripts.js"></script>

</head>
<body>
    <h1>Welcome to PHP Application</h1>

    <div>
        <!-- on hover on this link to get a red line -->
        <a href="#" onclick="greet('Welcome to PHP'); ">Click Me!</a>
    </div>

    <hr>

    <div>
        <?php
            echo "Hello World PHP! This is printed
            with the two and
```

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# 1 PHP Basics

```
multiple lines without any issues.";
?>
</div>

</body>
</html>
```

---

## styles.css

```
a:hover{
    text-decoration: underline;
    text-color: red;
}
```

```
h1 {
    text-align: center;
}
```

---

## scripts.js

```
function greet(message){
    alert(message);
}
```

---

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# 1 PHP Basics



Hello World PHP! This is printed with the two and multiple lines without any issues.

## Live Preview

### Exercise 1

### Download the Exercise 1

**Exercise 1:** Print the `<body>` tag with echo.



## Live Preview

### Exercise 2

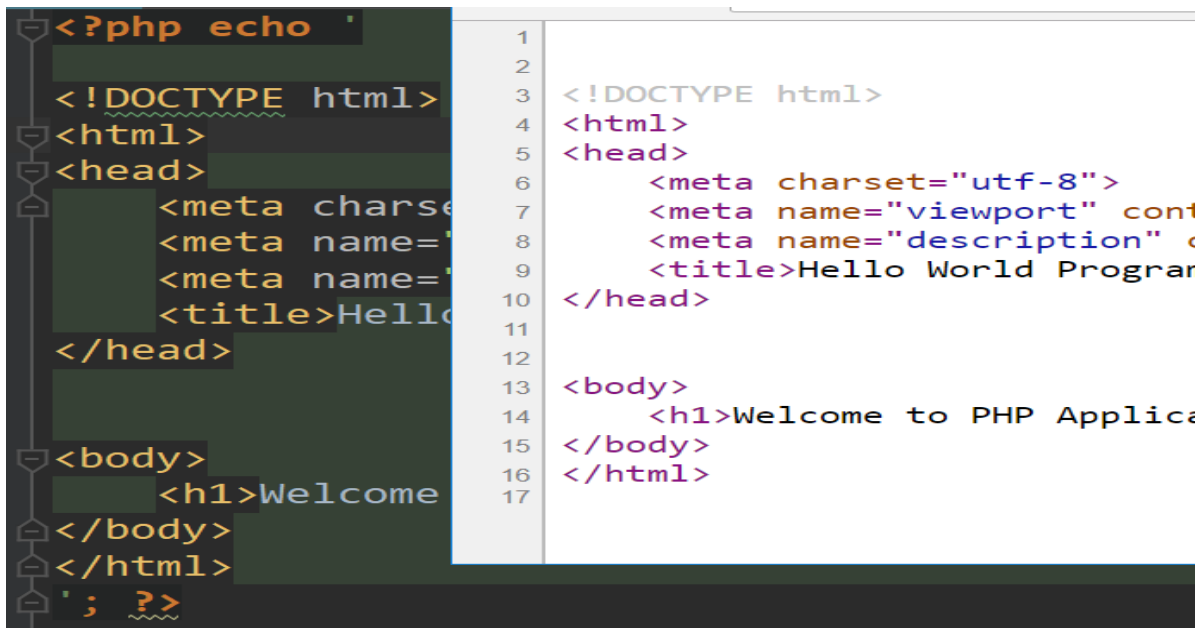
### Download the Exercise 2

**Exercise 2:** Write the complete HTML page with echo.

Understand that you can write anything on the page with echo.

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# 1 PHP Basics



```
<?php echo '  
<!DOCTYPE html>  
<html>  
<head>  
    <meta charset="utf-8">  
    <meta name="viewport" content="width=device-width, initial-scale=1">  
    <meta name="description" content="Hello World Program">  
    <title>Hello World Program</title>  
</head>  
<body>  
    <h1>Welcome to PHP Application</h1>  
</body>  
</html>  
<?php echo ';
```

```
1  
2  
3 <!DOCTYPE html>  
4 <html>  
5 <head>  
6     <meta charset="utf-8">  
7     <meta name="viewport" content="width=device-width, initial-scale=1">  
8     <meta name="description" content="Hello World Program">  
9     <title>Hello World Program</title>  
10 </head>  
11  
12  
13 <body>  
14     <h1>Welcome to PHP Application</h1>  
15 </body>  
16 </html>  
17
```

[Live Preview](#)

## 1.4 Comments

### Usage of Comments

You can use the special notation to comment the code inside the php.

Comments helps to document about the code with a single or multiple line.

Comments are ignored by the Web Server and it is not displayed and not sent to the browser.

You will not see php comments in the final HTML output.

There are two types of Comments in PHP:

Single Line Comments

Multi Line Comments

// – This is Single Line Comments. Use to comment one line.

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# 1 PHP Basics

# – This is Single Line Comments. Use to comment one line.

/\* – is used to indicate the comments are starting.

\*/ – is used to indicate the comments are ended.

Anything between /\* and \*/ will not be executed by the server.

Browser will never see php comments because it is ignored by the server.

## SYNTAX:

```
<body>
```

```
<?php
```

```
// This is a Single Line Comments
```

```
# This is also a Single Line Comments
```

```
/*
```

```
This is a multi line comments which
```

```
you cannot see on the browser
```

```
*/
```

```
?>
```

```
</body>
```

## Sample Example

### [Download the Example](#)

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <meta charset="utf-8">
```

```
    <meta name="viewport" content="width=device-width, initial-  
scale=1.0">
```

```
    <meta name="description" content="Learning PHP">
```

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# 1 PHP Basics

```
<title>Comments PHP</title>
</head>

<body>
    <?php

        //This is Single Line Comments

        # This is also a Single Line Comments

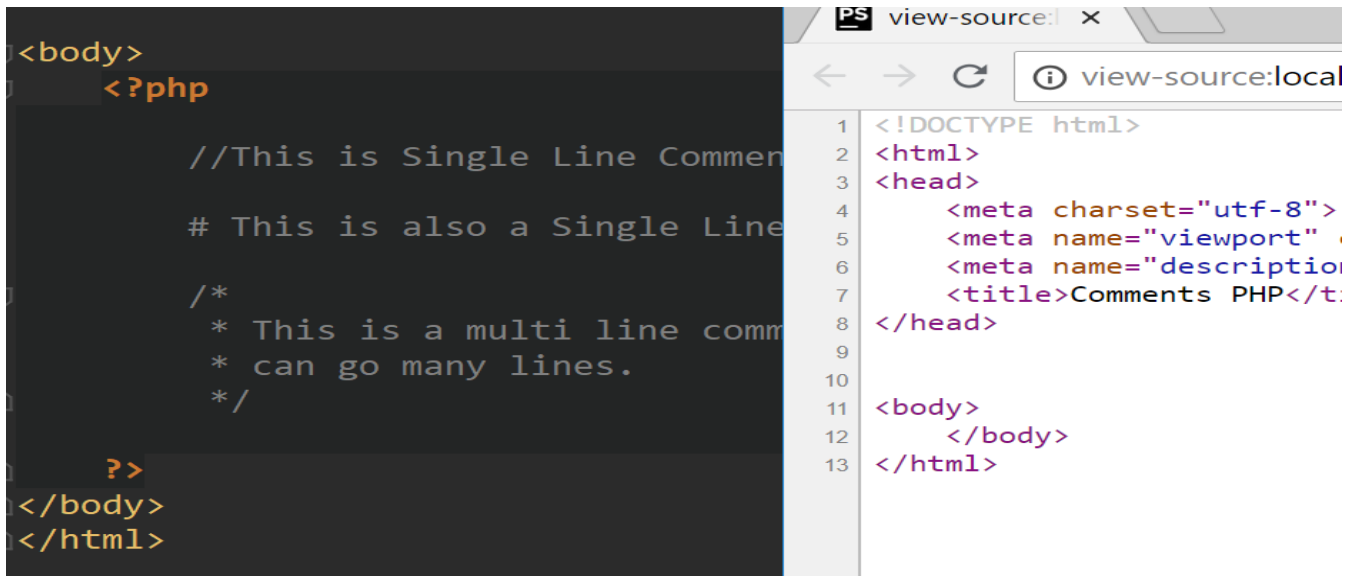
        /*
        * This is a multi line comments
        * can go many lines.
        */

    ?>
</body>
</html>
```

---

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# 1 PHP Basics



```
<body>
  <?php

    //This is Single Line Comment

    # This is also a Single Line Comment

    /*
     * This is a multi line comment
     * can go many lines.
     */

  ?>
</body>
</html>
```

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <meta name="description" content="Learning PHP">
7     <title>Comments PHP</title>
8 </head>
9
10
11 <body>
12     </body>
13 </html>
```

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### Exercise 1

### [Download the Exercise 1](#)

**Exercise 1:** Put the php opening tag on top and start the multi line comments and then close it at the end of HTML.

Guess the output.

```
<?php /*

<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta name="description" content="Learning PHP">
    <title>Comments PHP</title>
</head>
<body>
</body>
</html>
|
*/?>
```

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### Exercise 2

#### Download the Exercise 2

**Exercise 2:** Start the opening `/*` at the start of the HTML page and do not close it. See if it raise any issue.

```
<?php /*
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta name="description" content="Learning PHP">
    <title>Comments PHP</title>
</head>

<body>

</body>
</html>
|
```

#### Live Preview

## 1.5 Functions

### Usage of Functions

Functions is a block of statements that performs an action.

You can pass parameters to functions and it can return a value from the function using **“return”** keyword.

#### **Syntax of Function Declaration:**

```
function nameOfFunction(Parameters){
return someValue;
}
```

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# 1 PHP Basics

## Example 1:

```
function area($width, $height){  
    return width * height;  
}
```

```
echo "Area: " . area(10,20);
```

. – Dot character is used to append two strings together.

## Sample Example

### [Download the Example](#)

```
<!DOCTYPE html>  
<html>  
<head>  
    <meta charset="utf-8">  
    <meta name="viewport" content="width=device-width, initial-  
scale=1.0">  
    <meta name="description" content="Learning PHP">  
    <title>Functions PHP</title>  
</head>  
<body>  
    <?php  
  
        // Print message using functions  
        function printMessage(){  
            echo "<h1>Welcome to PHP</h1>";  
        }  
  
        //Return value from functions  
        function add($a, $b){
```

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## 1 PHP Basics

```
        return $a + $b;
    }

    // using "." to append data.
    echo "Addition of two value: " . add(5, 10 );

?>

<?php printMessage(); ?>

</body>
</html>
```

---

Addition of two value: 15

# Welcome to PHP

### [Live Preview](#)

#### Exercise 1

### [Download the Exercise 1](#)

**Exercise 1:** Define a add function in <head> section and use them in the <body> section.

Addition of two value: 15

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### Exercise 2

#### [Download the Exercise 2](#)

**Exercise 2:** Create two functions and call one function from another function.

```
//Loop two functions
function calculate($a, $b){
    return add($a, $b);
}

//Return value from functions
function add($a, $b){
    return $a + $b;
}
```

#### [Live Preview](#)

## 2. DATA BASICS

## 2 Data Basics

### 2.1 Variables

#### Usage of Variables

Variables are used to store information which are used inside the program.

Variables in php are defined with dollar (\$) sign in front of it.

#### ASSIGNMENT STATEMENT

---

#### ASSIGNMENT OPERATOR

\$message = "Hello Variables!";

#### VARIABLES

Here are the rules for defining the Variables:

Variable should start with dollar(\$) sign. Example : \$message.

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## Data Basics

Letters, numbers and underscore is allowed in the variable name.

After \$ it should not be a number. Example: \$123name is wrong.

Variables are case sensitive. \$message and \$Message are not same.

### Examples of Variables:

```
$index = 0;
```

```
$firstName = 'WPFreelancer';
```

```
$firstName = "WPFreelancer";
```

```
$price = 10;
```

```
$price = 10.50;
```

```
$result = true;
```

```
$fullName = $firstName;
```

\$ is used to indicate it is a variable.

= is the assignment operator used to assign the value to the variable.

;**semicolon** is used to end the assignment statement.

### Showing variable with echo

```
$siteName = "WPFreelancer";
```

```
echo "This is the $siteName for WordPress";
```

```
echo "This is the site name" . $siteName;
```

You can add the variables inside the **double quotes only** with the variable names.

“.” DOT symbol can be used to add the variable to the strings.

### Sample Example

**[Download the Example](#)**

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## Data Basics

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <meta name="description" content="Page Description">
    <title>Variables</title>
    <?php

        //Declaring & Initalizing a Variable
        $message = "";

        //Assigning value to the Variables
        $message = "Say Hello to Variables!";

        //Displaying the Variables via the Javascript
        echo "<script>console.log('" . $message . "');</script>";

    ?>

</head>

<body>
<h1>Variables</h1>
<?php
    $counter = 100;

    echo "This is counter: $counter <br>";
    echo "counter: ". $counter . "<br>";
```

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## Data Basics

```
echo 'This is the message - $message <br>';
```

```
echo "This is the message - $message <br>";
```

```
?>
```

```
</body>
```

```
</html>
```

---

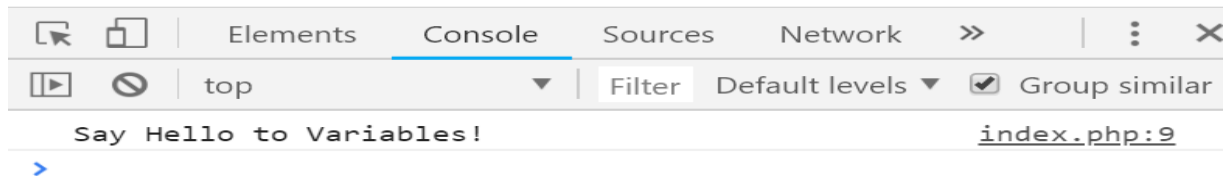
## Variables

This is counter: 100

counter: 100

This is the message - \$message

This is the message - Say Hello to Variables!



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### Exercise 1

### [Download the Exercise 1](#)

**Exercise 1:** Define all the Variables and Initialize them in the head section and then display them in the body section.

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# Variables

Name: JohnSmith  
Age: 25  
Occupation: Student

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## Exercise 2

[Download the Exercise 2](#)

**Exercise 2:** Write a function to add two strings with a "," and return the new string. call this function from body.

# Variables

Your Full Name: WP, Freelancer  
Welcome WP, Freelancer

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## 2.2 Strings

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## Data Basics

### Usage of String

Strings in PHP can be enclosed with Single Quote or Double Quotes.

You can use Single quotes inside the double quotes and vice-versa.

. – **DOT** Symbol is used to concatenate two strings together.

Variable when used inside the Double Quote then it will resolve into the variable value.

This is called as *Interpolation*.

Interpolation of Variables only happens with Double Quotes and it does not work with Single Quotes.

That's why you must always use Single Quotes and only use Double Double quotes when you need interpolation feature.

### Define a Variable with NULL

```
$message = NULL;
```

or

```
$message = null;
```

NULL or null is a special keyword that is used to define a empty variable.

### String Examples

```
$firstName = 'WPFreelancer';
```

```
$firstName = "WPFreelancer";
```

```
$fullName = $first . " - " . $last;
```

```
$fullName = "$first - $last";
```

```
$places = ""; //Empty String
```

```
$numPrice = 10.20;
```

```
$SubTotal = "Price: " . $numPrice;
```

### Sample Example

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### [Download the Example](#)

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <meta name="description" content="Page Description">
    <title>String</title>

</head>

<body>
<h1>String</h1>
<?php
    $fullName = 'WPFreelancer';
    $site = "http://$fullName.com/";
    echo "Visit us at $site <br>";

    $message = "Welcome to";
    echo $message . " " . $site;
?>
</body>
</html>
```

---

# String

Visit us at <http://WPFreelancer.com/>  
Welcome to <http://WPFreelancer.com/>

## [Live Preview](#)

### Exercise 1

#### [Download the Exercise 1](#)

**Exercise 1:** Convert a string to uppercase and lowercase. Display the text on body.

Lowercase Function: **strtolower**( \$variable );

Uppercase Function: **strtoupper**( \$variable );

**Example:** \$site = strtolower( \$site );

# String

Visit us at <http://wpfreelancer.com/>  
WELCOME TO [HTTP://WPFREELANCER.COM/](http://WPFREELANCER.COM/)

## [Live Preview](#)

### Exercise 2

#### [Download the Exercise 2](#)

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## Data Basics

**Exercise 2:** Substring “WP” from “WPFreelancer” word using the String function.

```
substr($variable, startIndex, length);
```

**Example:** \$newValue = substr(\$fullName, 0, 2);

# String

WP

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## 2.3 Numbers

### Usage of Numbers

Numbers can also be called as Integers.

Integers are positive or negative numbers.

Floating number is represented with number separated with “.” as decimals.

So, there are two types of numbers in PHP:

Integers

100

-200

Floating Point

10.34

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## Data Basics

Numbers are not wrapped with quotes or they do not include “,”

You can append the – (minus) symbol in front of the number to indicate it is negative number.

Most common methods used with Integer:

round() – This will round the decimals

intval() – This will convert string integer to integer.

### Examples:

```
$price = 10;
```

```
$total = 10.20;
```

### Sample Example

#### [Download the Example](#)

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <meta name="description" content="Page Description">
    <title>Numbers</title>

</head>

<body>
<h1>Numbers</h1>
<?php
    $length = 10;
    $breath = 10;
```

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```
$area = $length * $breath;  
echo "Area: $length x $breath = $area";  
?>  
</body>  
</html>
```

---

# Numbers

Area: 10 x 10 = 100

## [Live Preview](#)

### Exercise 1

## [Download the Exercise 1](#)

**Exercise 1:** Write a function to round a given decimal number and display the output.

**Tips:** Use the round(value)

# Numbers

Rounding Value of 13.234523 = 13

Rounding Value of 13.234523 with 2 points = 13.23

[Live Preview](#)

## Exercise 2

[Download the Exercise 2](#)

**Exercise 2:** Convert String to Integer and add two string numbers and add two integers numbers.

# Numbers

Adding 10 + 20

String Total: 1020

Integer Total: 30

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## 2.4 Arrays

### Usage of Arrays

Arrays is a data type that holds one or more items called as elements.

Each element could be combination of data types.

length is used to indicate the number of elements in the array.

Every element of the array can be accessed with an index number.

First element of Array starts with 0 index.

### Define an Array

```
$arrayName = array( $value1, $value2 );
```

### Examples:

```
$colorName = array('red', 'white', 'yellow');
```

```
$newColors = array();
```

```
$newColors[0] = $colorName[0];
```

```
$newColors[1] = $colorName[1];
```

```
$age = array(10, 40, 34);
```

```
$studentage[0] = $age[0];
```

```
$studentage[1] = 50;
```

Print Arrays

```
print_r($arrayName);
```

### Sample Example

**[Download the Example](#)**

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## Data Basics

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <meta name="description" content="Page Description">
    <title>Arrays</title>

</head>

<body>
<h1>Arrays</h1>
<?php
    //Define an Array
    $colorNames = array('red', 'green', 'white');

    //Print an Array
    print_r($colorNames);
    echo "<br>";

    //Loop thru the arrays
    foreach ($colorNames as &$value) {
        echo $value . "<br>";
    }
```

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```
//Define an Empty Array  
$age = array();  
$age[0] = 10;  
$age[1] = 20;  
$age[3] = 30;  
  
//Print Array  
print_r($age);
```

```
?>
```

```
</body>
```

```
</html>
```

---

# Arrays

Array ( [0] => red [1] => green [2] => white )

red

green

white

Array ( [0] => 10 [1] => 20 [3] => 30 )

## Live Preview

### Exercise 1

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## [Download the Exercise 1](#)

**Exercise 1:** Create an Array with String, Number and Boolean and display them.

# Arrays

Array ( [0] => 1 [1] => WPFreelancer [2] => 1 [3] => Class A )

## [Live Preview](#)

### **Exercise 2**

## [Download the Exercise 2](#)

**Exercise 2:** Do the following exercise with Arrays

Define an Empty Array

Add 1 Element

Display the Length

Add 2 Element

Show the two Elements

Show the Length of the Array

Use count( \$arrayName) method to show the length of an array.

# Arrays

```
Array ( [0] => 1 )  
Array ( [0] => 1 [1] => WPFreelancer )  
Array Length: 2
```

## Live Preview

## 2.5 Objects

### Usage of Classes and Objects

Class is a collection of Variables and Functions together.

Object is an instance of a Class used to store values in the class variables and access them via the functions.

Instead of defining methods and variables separately you can create a class and store them.

You need to create an instance of class to access it.

-> symbol is used to access the variable or methods in the object.

**\$this** is a special object that will help to access the existing object of a class.

### Class Syntax:

```
class Student{  
    private $id, $name, $age;
```

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## Data Basics

```
public function __construct($id, $name, $age){
    $this->id = $id;
    $this->name = $name;
    $this->age = $age;
}

public function getName(){
    return $this->name;
}

public function setName($name){
    $this->name = $name;
}

public function getStudentDetails(){
    $details = "ID: " . $this->id . " NAME: " . $this->name . " AGE:" . $this->age;
    return $details;
}
}
```

### Create Instance of Class

```
$studentObj = new Student(1, "WP", 20);
echo $studentObj->getStudentDetails();
```

### Sample Example

#### [Download the Example](#)

```
<!DOCTYPE html>
<html>
<head>
```

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## Data Basics

```
<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-
scale=1.0">

<meta name="description" content="Page Description">

<title>Classes and Objects</title>

<?php

    class Student{

        private $id, $name, $age;

        public function __construct($id, $name, $age){
            $this->id = $id;
            $this->name = $name;
            $this->age = $age;
        }

        public function getName(){
            return $this->name;
        }

        public function setName($name){
            $this->name = $name;
        }

        public function getStudentDetails(){
            $details = "ID: " . $this->id . " NAME: " .
            $this->name . " AGE:" . $this->age;

            return $details;
        }
    }
}
```

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```
}  
  
}  
  
?>  
  
</head>  
  
<body>  
<h1>Classes and Objects</h1>  
<?php  
    $studentObj = new Student(1, "WP", 20);  
    echo $studentObj->getStudentDetails();  
?>  
  
</body>  
</html>
```

---

# Classes and Objects

ID: 1 NAME: WP AGE:20

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## Exercise 1

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### [Download the Exercise 1](#)

**Exercise 1:** Create a Product Class with productName and price variables and create one function to access the price.

# Classes and Objects

Price: 100

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#### **Exercise 2**

### [Download the Exercise 2](#)

**Exercise 2:** Create a Calculator class and pass two values and create add and minus function.

# Classes and Objects

Add:  $10 + 20 = 30$

Minus:  $10 - 20 = -10$

### [Live Preview](#)

## 2.6 Constants

### Usage of Constant

Constants are like variables but once you define the constant with a fixed value you cannot change it later.

**NAME OF  
CONSTANT**

**define('PI', 3.1415);**

**METHOD TO  
DEFINE CONSTANT**      **VALUE OF  
CONSTANT**

Constant variables values are fixed and cannot be changed later.

define() is a method used to define a constant.

constant does not need \$ dollar because it is not like a variable.

### Example:

```
define('AGE', 20);
```

```
echo AGE;
```

You don't need \$ to access it.

Typically, constant is defined in UPPERCASE to differentiate easily between variables and constants.

### Sample Example

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### [Download the Example](#)

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <meta name="description" content="Page Description">
    <title>Constants</title>
    <?php

        //Define a Constant
        define('MESSAGE', "Welcome to PHP!");
        define('AGE', 20);

    ?>

</head>

<body>
<h1>Constants</h1>
<?php
    echo MESSAGE . ". I am " . AGE . " years old!";
?>
</body>
</html>
```

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# Constants

Welcome to PHP!. I am 20 years old!

## [Live Preview](#)

### Exercise 1

## [Download the Exercise 1](#)

**Exercise 1:** Define String, Number and Boolean Constant and display them.

# Constants

Welcome to PHP!. I am 20 years old! and Married Status:0

## [Live Preview](#)

### Exercise 2

## [Download the Exercise 2](#)

**Exercise 2:** Try to change the value of Constant and observe the error.

# Constants

**Notice:** Constant AGE already defined in  
**E:\Dropbox\BootCamp\Code\4-PHP\2-data-php\6-constants-php\ex2\after\index.php** on line **25**  
Welcome to PHP!. I am 20 years old! and Married Status:0

## Live Preview

## 2.7 Boolean

### Usage of Boolean

Boolean Variables helps to make decisions or store a decision based on an expression.

Boolean values can be true or false.

You can use boolean variable as a condition to check if the value is true or false.

```
$result = 2 > 1;  
$message = ($result) ? "CORRECT": "WRONG";
```

### Sample Example

## Download the Example

```
<!DOCTYPE html>  
<html>  
<head>
```

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## Data Basics

```
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-
scale=1.0">
<meta name="description" content="Page Description">
<title>Constants</title>

</head>

<body>
<h1>Constants</h1>
<?php
    $result = 2 > 1;
    $message = ($result) ? "CORRECT" : "INCORRECT";
    echo "Is 2 > 1? - $message";
?>
</body>
</html>
```

---

# Constants

Is 2 > 1? - CORRECT

**[Live Preview](#)**

### Exercise 1

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## Download the Exercise 1

**Exercise 1:** Guess the Output.

```
<?php
    $strText = "100";
    $message = ($strText > 10) ? "CORRECT" : "INCORRECT";
    echo "$message";
?>
```

# Constants

CORRECT

## Live Preview

**Exercise 2**

## Download the Exercise 2

**Exercise 2:** Create a Constant and use the constant to check the condition.

# Constants

INCORRECT

## [Live Preview](#)

## 2.8 Date and Time

### Usage of Date and Time

date() is a class library available to access the date.

We need to pass the format of the date to get the system date.

```
$today = date('Y-m-d'); //2018-01-01
```

```
$today = date('l, F, d, Y'); //Thursday, Jun 21, 2018
```

By default, \$today will have user system date.

### TimeStamp:

```
$todaytime = time();
```

```
echo $todaytime();
```

### Sample Example

## [Download the Example](#)

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <meta charset="utf-8">
```

```
    <meta name="viewport" content="width=device-width, initial-  
scale=1.0">
```

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## Data Basics

```
<meta name="description" content="Page Description">
<title>Date and Time</title>
</head>
<body>
<h1>Date and Time</h1>
<?php
    echo "Today is " . date('Y-m-d');
    echo "<br>";
    echo "Today is " . date('d/M/Y');
    echo "<br>";
    $formatdate = date('l, F d, Y');
    echo "Full Length Date: " . $formatdate;
?>
</body>
</html>
```

---

# Date and Time

Today is 2018-06-20

Today is 20/Jun/2018

Full Length Date: Wednesday, June 20, 2018

[Live Preview](#)

**Exercise 1**

[Download the Exercise 1](#)

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## Data Basics

**Exercise 1:** Print tomorrow date with this function  
`strtotime('tomorrow');`

Format the Date with date function

```
echo date( 'd/M/Y', strtotime('+5 days'));
```

# Date and Time

1529539200

25/Jun/2018

17/Jun/2018

## Live Preview

### Exercise 2

## Download the Exercise 2

**Exercise 2:** Print the **'first day of next month'** and format with date function.

**Tip:**

```
$futuredate = strtotime('first day of next month');
```

# Date and Time

Sunday, July 01, 2018

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## Live Preview

# 3. EXPRESSIONS

## 3 Expressions

### 3.1 Assignments

#### **Usage of Assignment Expressions**

Operators are used to perform some operation on the variables and they are represented with some symbols.

Expressions are evaluated into a result value or final value or single value.

There are couple of Expressions:

#### **Assignment Expressions**

Arithmetic Expressions

Comparison Expressions

Logical Expressions

We will look at Assignment Expressions in this topic.

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## Expressions

Expressions uses Operators to perform the activity.

### ASSIGNMENT STATEMENT

---

#### ASSIGNMENT OPERATOR

**\$message = “Hello Variables!”;**

#### VARIABLE

= is the **assignment operator** which assigns the value to the variable.

message = “something”; is a assignment expression that assign value to the message variable.

### Compound Assignment Operators

Compound assignment operators helps to do more than one operators job. It combines two operators together to perform an action.

Compound Assignment Operators are:

.=

+=

-=

\*=

/=

%=

\$message = 'WP'. 'Freelancer';

OR

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## Expressions

```
$message = 'WP';  
$message .= 'Freelancer';  
  
counter += 1;  
counter = counter + 1;  
  
counter -= 1;  
counter = counter - 1;  
  
counter *= 1;  
counter = counter * 1;
```

### Sample Example

#### [Download the Example](#)

```
<!DOCTYPE html>  
<html>  
<head>  
    <meta charset="utf-8">  
    <meta name="viewport" content="width=device-width, initial-  
scale=1.0">  
    <meta name="description" content="Page Description">  
    <title>Assignment Expressions</title>  
</head>  
  
<body>  
<h1>Assignment Expressions</h1>  
<?php  
    $firstName = "WP";
```

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## Expressions

```
$lastName = "Freelancer";  
$fullName = $firstName . ", " . $lastName;  
echo "Name $fullName <br>"
```

```
$counter = 10;  
echo "Counter: $counter <br>"  
$counter += $counter;  
echo "Counter+=: $counter <br>"  
$counter -= 10;  
echo "Counter-=: $counter <br>"
```

```
?>  
</body>  
</html>
```

---

# Assignment Expressions

Name WP, Freelancer  
Counter: 10  
Counter+=: 20  
Counter-=: 10

**[Live Preview](#)**

**Exercise 1**

**[Download the Exercise 1](#)**

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## Expressions

**Exercise 1:** Guess the difference between the two assignments.

`$counter++` and `$counter += counter;`

```
$counter = 10;  
  
echo "Counter: $counter <br>";  
$counter += $counter;  
echo "Counter: $counter <br>";  
  
$counter = 10;  
echo "Counter: $counter <br>";  
$counter++;  
echo "Counter: $counter <br>";
```

# Assignment Expressions

Counter: 10  
Counter: 20  
Counter: 10  
Counter: 11

[Live Preview](#)

**Exercise 2**

[Download the Exercise 2](#)

**Exercise 2:** What is the result of `$counter -= $counter` and `$counter -= 10;` when `$counter = 10;`

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```
$counter = 10;  
  
echo "Counter: $counter <br>";  
$counter -= $counter;  
echo "Counter: $counter <br>";  
  
$counter = 10;  
echo "Counter: $counter <br>";  
$counter -= 10;  
echo "Counter: $counter <br>";
```

# Assignment Expressions

Counter: 10  
Counter: 0  
Counter: 10  
Counter: 0

## [Live Preview](#)

### 3.2 Arithmetic

#### Usage of Arithmetic Expressions

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## Expressions

Expressions are evaluated into a result value or final value or single value.

There are couple of Expressions:

Assignment Expressions

**Arithmetic Expressions**

Comparison Expressions

Logical Expressions

We will look at Assignment Expressions in this topic.

Expressions uses Operators to perform the activity.

## ARITHMETIC OPERATOR

---

**\$price = 5 + 3;**

---

## ARITHMETIC EXPRESSION

**+** is the **arithmetic operator** which is used to perform mathematics calculations.

Arithmetic Operators are:

+

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## Expressions

—

\*

/

%

++

—

//Increment by 1

counter++;

counter = counter + 1;

//Decrement by 1

counter—;

counter = counter – 1;

Order of Precedence:

++

—

\* / %

+ –

Anything mentioned in () will get higher precedence over anything.

(5 + 2) \* 2; //Result – 14

### Sample Example

**[Download the Example](#)**

```
<!DOCTYPE html>
```

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## Expressions

```
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <meta name="description" content="Page Description">
    <title>Arithmetic Expressions</title>
</head>

<body>
<h1>Arithmetic Expressions</h1>
<?php
```

```
$counter = 10;
```

```
echo "Counter: $counter <br>";
```

```
$counter++;
```

```
echo "Counter++: $counter <br>";
```

```
$counter = 10;
```

```
echo "Counter: $counter <br>";
```

```
$counter--;
```

```
echo "Counter--: $counter <br>";
```

```
$counter = (10 - 5) * 2;
```

```
echo "(10 - 5) * 2: $counter <br>";
```

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```
?>  
</body>  
</html>
```

---

# Arithmetic Expressions

```
Counter: 10  
Counter++: 11  
Counter: 10  
Counter--: 9  
(10 - 5) * 2: 10
```

## [Live Preview](#)

### Exercise 1

## [Download the Exercise 1](#)

**Exercise 1:** Find a 15 is even or odd using Modulus (%) symbol.

```
$counter = 15%2;
```



# Arithmetic Expressions

15 is ODD number

## Live Preview

### Exercise 2

## Download the Exercise 2

**Exercise 2:** Try to apply the ++ to the following things:

```
1++;
```

```
echo "$counter++";
```

```
++1;
```

```
$message = "Hello";
```

```
$message++;
```

```
$result = true;
```

```
$result++;
```

Some of the things won't work so comment them and run the code.

# Arithmetic Expressions

```
10++  
Hello  
1
```

[Live Preview](#)

## 3.3 Comparison

### Usage of Comparison Expressions

Expressions are evaluated into a result value or final value or single value.

There are couple of Expressions:

Assignment Expressions

Arithmetic Expressions

### Comparison Expressions

Logical Expressions

We will look at Comparison Expressions in this topic.

Expressions uses Operators to perform the activity.

Comparison expression always evaluate into a true or false value.

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## COMPARISON OPERATOR

**\$price = 5 < 3;**

## COMPARISON EXPRESSION

> is the **comparison operator** which compares the two values.  
message variable will be have a true or false.

### Comparison Operations:

< – Less than

> – Greater than

== – Equal to

=== – Equal value and Equal Data Type

!== – Not Equal Value and Equal Data Type

!= – Not Equal

>= – Greater than and Equal

<= – Less than and Equal

### Conditional (Ternary) Operator

PHP has a conditional operator that assigns a value to a variable based on some condition.

## Expressions

```
$variablename = ($condition) ? value1:value2
```

```
$counter = (10<=10) ? 10 : 0;
```

### Sample Example

#### [Download the Example](#)

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <meta name="description" content="Page Description">
    <title>Comparison Expressions</title>
</head>

<body>
<h1>Comparison Expressions</h1>
<?php
```

```
    $counter = 10 == 10;
    echo $counter; //1 = true and 0 = false
```

```
    echo "<br>";
    $result = 15 <= 21;
    $message = ($result)? "YES": "NO";
```

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## Expressions

```
echo $message;
```

```
?>
```

```
</body>
```

```
</html>
```

---

# Comparison Expressions

1  
YES

## [Live Preview](#)

### Exercise 1

## [Download the Exercise 1](#)

**Exercise 1:** Learn how to compare NULL in the string with === operator.

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# Comparison Expressions

TRUE  
FALSE

## Live Preview

### Exercise 2

## Download the Exercise 2

**Exercise 2:** Find empty string from 2 strings.

```
$result = empty($emptyString1) ? "EMPTY": "NOT EMPTY";  
echo "First String: " . $result;  
echo "<br><hr>";  
$result = empty($emptyString2) ? "EMPTY": "NOT EMPTY";  
echo "Second String: " . $result;  
echo "<br><hr>";  
$result = ($emptyString2 == "") ? "EMPTY": "NOT EMPTY";  
echo "Second String: " . $result;  
echo "<br><hr>";
```

# Comparison Expressions

First String: NOT EMPTY

---

Second String: EMPTY

---

Second String: EMPTY

---

Second String: EMPTY

[Live Preview](#)

## 3.4 Logical

### Usage of Logical Expressions

Expressions are evaluated into a result value or final value or single value.

There are couple of Expressions:

Assignment Expressions

Arithmetic Expressions

Comparison Expressions

**Logical Expressions**

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## Expressions

We will look at Logical Expressions in this topic.

Expressions uses Operators to perform the activity.

Logical Operators are used to check the if the condition is true or false based on many conditions.

### LOGICAL OPERATOR

```
$result = (5 > 3) && (8 < 5);
```

### LOGICAL EXPRESSION

**&&** is the **logical operator** which checks left side and right side value and decides if the condition is true or false.

(5 > 3) – true

(8 < 5) – false

true && false = false

result variable will have **false** boolean value.

Logical Operations:

&& – AND

|| – OR

! – NOT

Order of Precedence

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## Expressions

Order of precedence decides which operates evaluates first.

NOT

AND

OR

### Sample Example

#### [Download the Example](#)

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <meta name="description" content="Page Description">
    <title>Logical Expressions</title>
</head>

<body>
<h1>Logical Expressions</h1>
<?php

    $input1 = 10;
    $input2 = 20;
    $result = ($input1 < $input2) || ($input1 == $input2);

    echo $input1 . " <= " . $input2 . " is " . $result;
```

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?>

</body>

</html>

---

# Logical Expressions

10 <= 20 is 1

## Live Preview

### Exercise 1

## Download the Exercise 1

**Exercise 1:** Guess the Output from below code.

```
$input1 = 10;  
$input2 = 10;  
$result = ($input1 <= $input2) && ($input1 >= $input2);  
echo $input1 . " <= " . $input2 . " is " . $result;
```

## Live Preview

### Exercise 2

## Download the Exercise 2

**Exercise 2:** Guess the output from the below code.

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## Expressions

```
$input1 = 10;  
$input2 = "20";  
$result = ($input1 === $input2) || ($input1 == $input2);  
echo $input1 . " <= " . $input2 . " is " . $result;
```

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# 4. STATEMENTS

## 4 Statements

### 4.1 If Statements

#### Usage of if Statements

if statement are used to check a condition and make a decision based on the result of the condition.

It can choose some action when the condition is true and also take some action when it false.

You can nest multiple conditions together and decide to choose one action based on multiple conditions.

#### Syntax:

```
if ( condition1 ){  
    // Statements  
} else if( condition1 || condition2 ){  
    // Statements  
} else {  
    // Statements
```

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## Statements

```
}
```

### Example 1:

```
if( $marks > 35 ){  
    echo "Your're Passed!";  
}else{  
    echo "Better Luck Next Time!";  
}
```

### Example 2:

```
if( $marks > 35 && $marks < 60 ){  
    echo "You are Passed with Grade C";  
}else if ( $marks > 60 && $marks < 80 ){  
    echo "You are Passed with Grade B";  
}else if ( $marks > 80 ){  
    echo "You are Passed with Grade A";  
}else{  
    echo "Try Again!";  
}
```

### [Download the Example](#)

```
<!DOCTYPE html>  
<html>  
<head>
```

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## Statements

```
<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-
scale=1.0">

<meta name="description" content="Page Description">

<title>If Statements</title>

<?php

    $dayOfWeek = "Wednesday";

    $result = "";

    $dayOfWeek = strtolower($dayOfWeek);

    if( $dayOfWeek == 'monday' || $dayOfWeek == 'mon'){

        $result = "First Day of Week";

    }else if( $dayOfWeek == 'tuesday' || $dayOfWeek ==
'tue' ){

        $result = "Second Days of Week";

    }else if( $dayOfWeek == 'wednesday' || $dayOfWeek ==
'wed' ){

        $result = "Mid Week";

    }else if( $dayOfWeek == 'thursday' || $dayOfWeek ==
'thurs'){

        $result = "Preparing for Weekend";

    }else if( $dayOfWeek == 'friday' || $dayOfWeek ==
'fri'){

        $result = "It's Friday!";

    }else if( $dayOfWeek == 'saturday' || $dayOfWeek ==
'sat' ){

        $result = "Enjoying Day!";
```

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## Statements

```
        }else if( $dayOfWeek == 'sunday' || $dayOfWeek ==  
'sun'){  
            $result = "Resting Day!";  
        }else{  
            $result = "Cannot find that Value!";  
        }  
    ?>
```

```
</head>
```

```
<body>
```

```
<h1>If Statements</h1>
```

```
<?php
```

```
    echo "This is the result: " . $result;
```

```
?>
```

```
</body>
```

```
</html>
```

---

# if Statements

Mid Week

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### Exercise 1

#### [Download the Exercise 1](#)

**Exercise 1:** Set the inputVariable number between 1 to 10 and check if that variable is between 1 to 10 with if Statement.

---

# If Statements

10 is between 1 to 10

#### [Live Preview](#)

### Exercise 2

#### [Download the Exercise 2](#)

**Exercise 2:** Enter the age of the user in the InputVariable and decides if he is kid, man (age > 21) or senior citizen (age > 55).

---

# If Statements

Welcome Buddy!

#### [Live Preview](#)

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### 4.2 Switch Statements

#### Usage of Switch Statements

switch statement are used to check a value and make a decision based on the result of the value matching.

#### Syntax:

```
switch( $variable ){  
    case value:  
        //Statement  
        break;  
    case value:  
        //Statement  
        break;  
    default:  
        //Statement  
        break;  
}
```

#### Example 1:

```
switch ( $dayOfWeek ){  
    case 'Mon':  
        echo "Welcome Monday";
```

## Statements

```
break;
case 'Tuesday':
    echo "Welcome Tuesday";
break;
default:
    echo "Try Again!";
break;
}
```

### [Download the Example](#)

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <meta name="description" content="Page Description">
    <title>Switch Statements</title>
    <?php
        $dayOfWeek = "Friday";

        $result = "";
        $dayOfWeek = strtolower($dayOfWeek);
```

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## Statements

```
switch($dayOfWeek){
    case 'monday':
        $result = "First Day of Week";
        break;
    case 'tuesday':
        $result = "Second Days of Week";
        break;
    case 'wednesday':
        $result = "Mid Week";
        break;
    case 'thursday':
        $result = "Preparing for Weekend";
        break;
    case 'friday':
        $result = "It's Friday!";
        break;
    case 'saturday':
        $result = "Enjoying Day!";
        break;
    case 'sunday':
        $result = "Resting Day!";
        break;
    default:
        $result = "Cannot find that Value!";
}

?>
```

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```
</head>

<body>
<h1>Switch Statements</h1>
<?php
    echo "This is the result: " . $result;
?>
</body>
</html>
```

---

# Switch Statements

This is the result: It's Friday!

## [Live Preview](#)

### Exercise 1

## [Download the Exercise 1](#)

**Exercise 1:** Set InputVariable number between 1 to 10 and check if the variable is between 1 to 10 as requested with the switch Statement.

# Switch Statements

This is the result: Try Again!

## Live Preview

### Exercise 2

## Download the Exercise 2

**Exercise 2:** Set a Variable to user age and decides if he is kid, man (age > 21) or senior citizen (age > 55). Use the Switch Statement.

### Tips:

```
switch(true){  
case ($input > 21):  
//Statements  
break;  
}
```

---

# Switch Statements

This is the result: Welcome Sir!

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## Live Preview

### 4.3 While Statements

#### **Usage of While Loop**

While statement are used to loop a block code and run it until a condition is met.

Running the same block of code until the condition is satisfied.

#### **Syntax:**

```
while( condition ) {  
    //Statements  
}
```

#### **Example 1:**

```
$counter = 0;  
while ( $counter <= 10 ){  
    $counter++;  
}
```

#### **Syntax:**

```
do{  
    //Statement  
}while ( condition );
```

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## Statements

### Example 1:

```
$counter = 0;  
do{  
$counter++;  
} while ( $counter <= 10 );
```

**break;** – break is the keyword used to break the loop and come out of the loop and execute statements after the while loop.

### [Download the Example](#)

```
<!DOCTYPE html>  
<html>  
<head>  
    <meta charset="utf-8">  
    <meta name="viewport" content="width=device-width, initial-scale=1.0">  
    <meta name="description" content="Page Description">  
    <title>Boolean Expressions</title>  
    <script>  
  
        var result = 2 > 1;  
        var message = (result) ? "CORRECT": "WRONG";  
  
    </script>  
  
</head>
```

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## Statements

```
<body>  
<h1>Boolean Expression</h1>  
  <script type="text/javascript">  
    document.write(message);  
  </script>  
</body>  
</html>
```

---

# While Statements

While Counter: 0  
While Counter: 1  
While Counter: 2  
While Counter: 3  
While Counter: 4  
While Counter: 5  
While Counter: 6  
While Counter: 7  
While Counter: 8  
While Counter: 9  
While Counter: 10  
Do Counter: 0  
Do Counter: 1  
Do Counter: 2  
Do Counter: 3

## [Live Preview](#)

### **Exercise 1**

## [Download the Exercise 1](#)

**Exercise 1:** Define CONSTANTS INPUT1 and INPUT2 and print all the numbers between them. Print only maximum of 10 numbers.

## Statements

**break;** – is a keyword that can be used in the loop to break from the loop.

**continue;** – is a keyword that can be used in the loop to continue the loop by skipping the below statements.

**Tip:**

```
if( $counter >= 10){  
    break;  
}
```

---

# While Statements

While Counter: 3  
While Counter: 4  
While Counter: 5  
While Counter: 6  
While Counter: 7  
While Counter: 8  
While Counter: 9

## [Live Preview](#)

### Exercise 2

## [Download the Exercise 2](#)

**Exercise 2:** Define TWO CONSTANT and print **EVEN** numbers only between them. Print only maximum of 10 numbers.

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# While Statements

Even Number:

2  
4  
6  
8

[Live Preview](#)

## 4.4 For Statements

### Usage of For Loop

for Loop are used to loop a block code and run it until a condition is met.

Running the same block of code until the condition is satisfied.

### Syntax:

```
for( counter initialization; condition; increments ) {  
//Statements  
}
```

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## Statements

### Example 1:

```
for($counter = 0; $counter <= 10; $counter++){  
    echo $counter;  
}
```

```
for($counter = 0, $input1 = 10; $counter <= 10; $counter++,  
    $input1++){  
    echo $input1;  
}
```

### [Download the Example](#)

```
<!DOCTYPE html>  
<html>  
  <head>  
    <meta charset="utf-8">  
    <meta name="viewport" content="width=device-width, initial-  
scale=1.0">  
    <meta name="description" content="Page Description">  
    <title>For Statements</title>  
  </head>  
  
  <body>  
    <h1>For Statements</h1>  
    <?php
```

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## Statements

```
for($counter=0; $counter<=10; $counter++){  
    echo "For Counter: " . $counter . "<br>" ;  
}
```

?>

</body>

</html>

---

# For Statements

For Counter: 0  
For Counter: 1  
For Counter: 2  
For Counter: 3  
For Counter: 4  
For Counter: 5  
For Counter: 6  
For Counter: 7  
For Counter: 8  
For Counter: 9  
For Counter: 10

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### Exercise 1

#### [Download the Exercise 1](#)

**Exercise 1:** Define two constant number with default value and print all the numbers between them. Print only maximum of 10 numbers.

**break;** – is a keyword that can be used in the loop to break from the loop.

**continue;** – is a keyword that can be used in the loop to continue the loop by skipping the below statements.

---

# For Statements

Starts from: 3 and Ends At: 9

---

Input0 : 3

Input1 : 4

Input2 : 5

Input3 : 6

Input4 : 7

Input5 : 8

Input6 : 9

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### Exercise 2

#### [Download the Exercise 2](#)

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## Statements

**Exercise 2:** Define two constant with default value and print **EVEN** numbers only between them. Print only maximum of 10 numbers.

Use the Loop like this:

```
for($counter = 0; $counter<=10 && ($input3 < $input4); $counter++, $input3++){  
    if ($counter % 2 == 0) {  
        echo $counter . " ";  
    }  
}
```

---

# For Statements

Starts from: 3 and Ends At: 9

---

Input1 : 4

Input3 : 6

Input5 : 8

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# 5. GENERAL

## 5 General

### 5.1 Exceptions

#### Usage of Try Catch Blocks

There are 3 types of error you can find in PHP:

Syntax Errors

Runtime Errors

Logic Errors

**Syntax errors** is where you forgot to follow the rules of PHP. It will cause error when you execute the program.

**Runtime Errors** could be when it is running the program the PHP interpreter could not understand how to proceed and throws an error.

**Logic Errors** are logically error that are caused because the program instructions are not logically correct.

Exceptions in programming are referred to as Runtime Errors.

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## General

When Runtime Errors happens there is a way to catch those errors and pass it to the application and make a clean exit from the program.

This is called as Exception Handling.

The process of making sure the code will not break and if it does it know the reason for it and make a clean exit.

To handle Runtime errors in the PHP we have try-catch blocks. Using this we can catch the errors and decide what to do next.

### **SYNTAX:**

```
try{  
    //Statements  
}catch(Exception $exceptionObj) {  
    //Statments  
}
```

### **Example:**

```
try{  
    $firstName = "";  
    if( $firstName == "" ) throw new Exception( "Name is empty" );  
}catch(Exception $e){  
    echo "Message: " . $e->getMessage();  
}finally{  
    echo "This is from the Finally Block";  
}
```

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## General

**try {} block** will have all the statements

**throw** is a keyword to throw an error from the program. Once the program throw an error it will stop processing the next steps. It will jump to catch {} block.

**catch {} block** will be executed once the throw is called. The program will execute out from the catch block safely.

**finally{} block** will execute every time irrespective of error or not. It is good place to close all open connections. Handle clean exit.

```
try{
    throw new Exception( message: "Error in the try block!");
}catch(Exception $e){
    echo "Exception: ". $e ->getMessage();
}finally{
    echo "<br> This is from the Finally Block!";
}
```

### [Download the Example](#)

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <meta charset="utf-8">
```

```
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
```

```
    <meta name="description" content="Page Description">
```

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## General

```
<title>Exceptions</title>
</head>

<body>
<h1>Exceptions</h1>
<?php
    try{

        throw new Exception("Error in the try block!");

    }catch(Exception $e){

        echo "Exception: ". $e ->getMessage();

    }finally{

        echo" <br> This is from the Finally Block!";

    }

?>

</body>
</html>
```

---

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# Exceptions

Exception: Error in the try block!  
This is from the Finally Block!

## Live Preview

### Exercise 1

## Download the Exercise 1

**Exercise 1:** Define one constant number and raise error if the number is not integer.

**Tip:**

```
if( !is_numeric(INPUTVALUE ) )
```

---

# Exceptions

10 is a Integer.  
This is from the Finally Block!

## Live Preview

### Exercise 2

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## Download the Exercise 2

**Exercise 2:** Define a number between 1 to 100.

Show the following message on the page:

If the input is between 1 to 100 – less than 100.

If the input is greater than 100 – greater than 100.

If the input is not number – throw an error

```
define('INPUTVALUE', "10");

if( !is_numeric( var: INPUTVALUE ) ){
    throw new Exception( message: "Input Value is not an Integer.");
}else if ( INPUTVALUE <= 100){
    echo INPUTVALUE . " is less than 100.";
}
else{
    echo INPUTVALUE . " is greater than 100.";
}
```

## Live Preview

## 5.2 Debug

### Step 1: Write PHP Code with Errors

Try the following Errors:

```
$inputValue = 10;echo inputValue;
```

```
echo "This is a String" + "another String";
```

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## Download the Exercise 1

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <meta name="description" content="Page Description">
    <title>Debugging</title>
</head>

<body>
<h1>Debugging</h1>
<?php

    $inputValue = 10;
    echo inputValue;

?>

</body>
</html>
```



# Debugging

**Warning:** Use of undefined constant inputValue - assumed 'inputValue' (this will throw an Error in a future version of PHP) in **E:\Dropbox\BootCamp\Code\4-PHP\5-general-php\2-debug-php\em1\after\index.php** on line 16  
inputValue

## Live Preview 1

### Exercise 1:

Add Sum() method in the php file and do not create that function. This will cause the program to fail.

### Exercise 2:

Write echo statement before the sum() method and echo after the sum() method.

Find out the error by seeing the echo messages.

### Step 2: Debug

Using echo you need to write the trace logs.

See which the last echo that was executed.

## 5.3 Files

### Usage of Files

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## General

You can read files on the server using the PHP libraries.

Modes used during opening the file:

**rb** – Open the file for reading purpose.

**wb** – Create a new file and if already exists then it overwrite it.

**ab** – Create the file and append the data is already existed.

**xb** – Create a new file and if already exists then it does not create.

Here are the methods to open and close a file

**fopen**(\$path, \$mode)

**fclose**(\$file)

**feof**(\$file) – To check if the file is at the end.

Method to read and write into the file:

**fread**(\$file, \$length) – length is used to specify number of bytes to read.

**fgets**(\$file) – Read a line

**fwrite**(\$file, \$data) – Write the \$data value to the file.

Sample Example

[Download the Example](#)

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
```

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## General

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<meta name="description" content="Page Description">
```

```
<title>Files</title>
```

```
</head>
```

```
<body>
```

```
<h1>Files</h1>
```

```
<?php
```

```
//Create a local file and name it "readme.txt"
```

```
/*
```

```
 * READ A FILE - rb mode
```

```
 *
```

```
*/
```

```
$file = fopen('readme.txt', 'rb');
```

```
$line = "";
```

```
while( !feof($file) ){
```

```
    $line = fgets($file);
```

```
    echo $line;
```

```
}
```

```
fclose($file);
```

```
/*
```

```
 * WRITE A FILE - wb mode
```

```
 *
```

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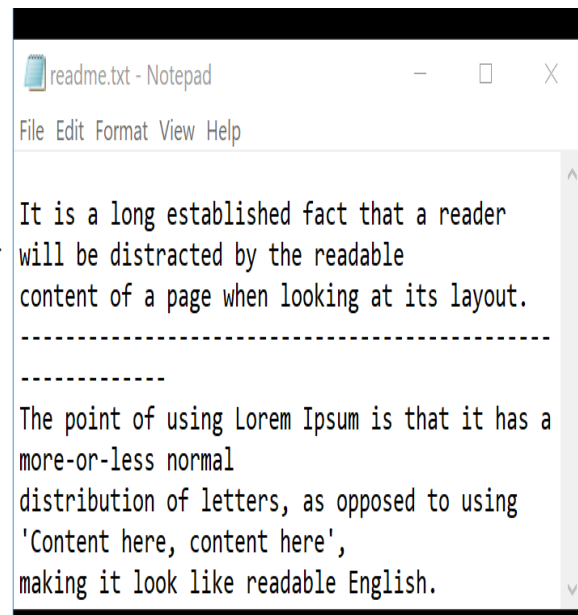
## General

```
*/  
$file = fopen("newfile.txt", "wb");  
fwrite( $file, "<br><h1>It is a long established fact that  
a reader  
will be distracted by the readable  
content of a page when looking at its  
layout.</h1>");  
fclose( $file );  
  
?>  
  
</body>  
</html>
```


---

## Files

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. -----  
----- The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed to using 'Content here, content here', making it look like readable English.



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 newfile.txt - Notepad

File Edit Format View Help

```
<br><h1>It is a long established fact that a reader  
will be distracted by the readable  
content of a page when looking at its layout.</h1>
```

## Live Preview

### Exercise 1

## Download the Exercise 1

**Exercise 1:** Write a new file newfile.txt with some content. Read the same file and display the output on the browser.

# Files

**It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout.**

## Live Preview

### Exercise 2

## Download the Exercise 2

**Exercise 2:** Append some text to an existing file with 'ab' mode.

# Files

**It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout.**

**This is a NEW text appended.**

[Live Preview](#)

## 5.4 Includes & Requires

### Usage of Includes and Requires

PHP allows to break the code into small pieces of file and then include them in the main page.

These are statements that can be used:

include

include\_once

require

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## General

require\_once

include and require both help to include the file into another file.

If the included file is not available then **include** statement will ignore and continue to execute the other part of the code.

if the included file is not available then **require** statement will stop the execution of the program.

require\_once or include\_once will not import if the file is already included.

### Sample Example

#### [Download the Example](#)

File: index.php

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <meta name="description" content="Page Description">
    <title>Includes</title>
</head>

<body>
<h1>Includes</h1>
<?php
```

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## General

```
include 'functions.php';
```

```
echo add(1, 2);
```

```
require 'display.php';
```

```
?>
```

```
</body>
```

```
</html>
```

### File: functions.php

```
<?php
```

```
function add($a, $b){
```

```
    return $a + $b;
```

```
}
```

```
?>
```

### File: display.php

```
<?php
```

```
echo '<br><h1>This is displayed from display.php</h1>';
```

```
?>
```

---

## Includes

3

# This is displayed from display.php

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## Live Preview

### Exercise 1

## Download the Exercise 1

**Exercise 1:** Use the same code from above and delete the display.php and functions.php in this exercise and see the error.

Observe the Warning and Fatal Error. Warning is coming from include and Fatal Error from require.

## Includes

**Warning:** include(functions.php): failed to open stream: No such file or directory in **E:\Dropbox\BootCamp\Code\4-PHP\5-general-php\4-include-php\ex1\after\index.php** on line 15

**Warning:** include(): Failed opening 'functions.php' for inclusion (include\_path='.;C:\php\pear') in **E:\Dropbox\BootCamp\Code\4-PHP\5-general-php\4-include-php\ex1\after\index.php** on line 15

**Fatal error:** Uncaught Error: Call to undefined function add() in **E:\Dropbox\BootCamp\Code\4-PHP\5-general-php\4-include-php\ex1\after\index.php:16** Stack trace: #0 {main} thrown in **E:\Dropbox\BootCamp\Code\4-PHP\5-general-php\4-include-php\ex1\after\index.php** on line 16

## Live Preview

### Exercise 2

## Download the Exercise 2

**Exercise 2:** Put all the HTML code in index.html and include that file in the index.php

# Includes from Index.html

[Live Preview](#)

## 5.5 Libraries

### Usage of Libraries

You can create a library file and put all the functions that you commonly use in this library file.

This is the common practice for any web development where you break the main program into smaller chunks of code and then include them in the main program.

You can use ***include*** statement to import this functions file in your page so that you can access those functions.

### Sample Example

[Download the Example](#)

## General

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <meta name="description" content="Page Description">
    <title>Libraries</title>
</head>

<body>
<h1>Libraries</h1>
<?php

    include 'calculator.php';

    define('INPUTVALUE1', 50);
    define('INPUTVALUE2', 23);

    echo 'Calculator : ' . INPUTVALUE1 . ' AND ' . INPUTVALUE2 .
'<br>';

    echo 'Addition: ' . add(INPUTVALUE1, INPUTVALUE2) . '<br>';
    echo 'Minus: ' . minus(INPUTVALUE1, INPUTVALUE2) . '<br>';
    echo 'Multiply: ' . multiply(INPUTVALUE1, INPUTVALUE2) .
'<br>';

?>
```

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## General

```
</body>
```

```
</html>
```

### FileName: functions.php

```
<?php
```

```
function add($a, $b){  
    return $a + $b;  
}
```

```
function minus($a, $b){  
    return $a - $b;  
}
```

```
function multiply($a, $b){  
    return $a * $b;  
}
```

```
?>
```

---

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# Libraries

Calculator : 50 AND 23

Addition: 73

Minus: 27

Multiply: 1150

## Live Preview

### **Exercise 1**

**Exercise 1:** Create your own Library and use it. Continue using it for other projects as well.

Follow this practice to split the project into small files and include them.

# 6. FORMS

## 6 Forms

### 6.1 GET

#### Usage of Form GET Method

GET is type of method used by the form to pass the form data to the page that is mentioned in the action of the form.

GET method will send the data in the url.

#### WHERE TO SEND THE DATA   HOW TO SEND DATA?

```
<form action=""display.php" method="get">  
  <input name ="input_text" type="text">  
  <input name ="input_email" type="email">  
  <input type="submit">  
</form>
```

  
http://site.com/display.php?**input\_text=&input\_email=**

When you define a form here are the important things:

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## Forms

**action** attribute – This define to which file this form data has to be sent to.

**method** attribute are of two types – GET and POST.

GET means data is visible in the URL bar.

POST means data is hidden.

Using GET we can send limited data and using POST we can send huge data.

<input> type has a **name** attribute which helps to define the name of the element. This name is like a variable that holds the data what user enters.

**name attribute** for form element is posted to the next page.

<input **type="submit"**> will show a submit button when clicked the form will be submit the data the file. This action is taken care by the browser.

### How to Read the GET Variables from the URL

If the URL is something like:

http://site.com/display.php?**input\_text**=hello&**input\_email**=test@test.com

```
$text = $_GET['input_text'];
```

```
$emailid = $_GET['input_email'];
```

URL will have the name=value pairs separated with &.

\$\_GET[] is an array that gets created automatically with the GET parameters which you can access it and check if any value is there or not.

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## Forms

\$\_GET[] is super global variable which is always available even it is empty it is available.

When you click the submit button the form data is passed to display.php which read the parameters and display the output.

Browser will also go from index.php page to display.php page.

### index.php

```
<form action=""display.php" method="get">
  <fieldset>
    <legend>Student Enquiry Form</legend>
    <p>
      <label for="input_text">Text:</label>
      <input name ="input_text" type="text"
    </p>
    <p>
      <label for="input_email">Email:</label>
      <input name ="input_email" type="email"
    </p>
  </fieldset>
  <p><input type="submit"> &nbsp;&nbsp;&nbsp;<input type="reset"> &nbsp;&nbsp;&nbsp;</p>
</form>
```

### display.php

```
$text = $_GET ['input_text'];
$emailid = $_GET ['input_email'];
```

## Sample Example

### [Download the Example](#)

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta name="description" content="Page Description">
  <title>Forms - GET</title>
```

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## Forms

```
</head>

<body>
<h1>Form - GET</h1>
<form action="display.php" method="get">
  <fieldset>
    <legend>Student Enquiry Form</legend>
    <p>
      <label for="input_text">Text:</label>
      <input name ="input_text" type="text"
placeholder="Text">
    </p>
    <p>
      <label for="input_email">Email:</label>
      <input name ="input_email" type="email"
placeholder="test@domain.com">
    </p>
  </fieldset>
  <p><input type="submit">   <input type="reset"></p>
</form>
</body>
</html>
```

**FileName: display.php**

```
<!DOCTYPE html>
<html>
```

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## Forms

```
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <meta name="description" content="Page Description">
    <title>Forms - GET</title>
</head>

<body>

<h1>Form - GET</h1>
<a href="index.php">Back to Home Page</a><br>
<?php

    $name = $_GET['input_text'];
    $email = $_GET['input_email'];

    echo "Name: $name and Email: $email";
?>
</body>
</html>
```

---

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# Form - GET

Student Enquiry Form

Text:

Email:

Submit

Reset

# Form - GET

[Back to Home Page](#)

Name: WPFreelancer and Email: test@test.com

[Live Preview](#)

**Exercise 1**

[Download the Exercise 1](#)

**Exercise 1:** Create a Form that accepts two numbers and show the calculation of those two numbers on another page.

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# Form - GET

Calculator

Number 1:

Number 2:

Submit

Reset

# Form - GET

[Back to Home Page](#)

1 + 2 = 3

[Live Preview](#)

**Exercise 2**

[Download the Exercise 2](#)

**Exercise 2:** Show the result on the same page and redirect to same page.

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## Forms

Tips:

Check if the values are not empty

```
if( !empty( $_GET['input_text1'] ) && !empty(
$_GET['input_text2'] ) ){
```

# Form - GET

Answer:  $10 + 20 = 30$

Calculator

Number 1:

Number 2:

Submit

Reset

[Live Preview](#)

## 6.2 POST

**Usage of Form POST Method**

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## Forms

POST is type of method used by the form to pass the form data to the page that is mentioned in the action of the form.

POST method will send the data as an attachment. It is not visible in the URL.

### WHERE TO SEND THE DATA   HOW TO SEND DATA?

```
<form action=""display.php" method="post">  
  <input name ="input_text" type="text">  
  <input name ="input_email" type="email">  
  <input type="submit">  
</form>
```

Data is hidden inside the message sent to server.

When you define a form here are the important things:

**action** attribute – This define to which file this form data has to be sent to.

**method** attribute are of two types – GET and POST.

GET means data is visible in the URL bar.

POST means data is hidden.

Using GET we can send limited data and using POST we can send huge data.

<input> type has a **name** attribute which helps to define the name of the element. This name is like a variable that holds the data what user enters.

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## Forms

**name attribute** for form element is posted to the next page.

`<input type="submit">` will show a submit button when clicked the form will be submit the data the file. This action is taken care by the browser.

### How to Read the POST Variables

POST variable are not visible in the URL.

```
$text = $_POST['input_text'];
```

```
$emailid = $_POST['input_email'];
```

`$_POST[]` is an array that gets created automatically with the POST parameters which you can access it and check if any value is there or not.

`$_POST[]` is super global variable which is always available even it is empty it is available.

When you click the submit button the form data is passed to display.php which read the parameters and display the output.

Browser will also go from index.php page to display.php page.

### index.php

```
<form action="display.php" method="get">
  <fieldset>
    <legend>Student Enquiry Form</legend>
    <p>
      <label for="input_text">Text:</label>
      <input name="input_text" type="text"
    </p>
    <p>
      <label for="input_email">Email:</label>
      <input name="input_email" type="email"
    </p>
  </fieldset>
  <p><input type="submit"> &nbsp;&nbsp;&nbsp;<input
</form>
```

### display.php

```
$text = $_POST ['input_text'];
$emailid = $_POST ['input_email'];
```

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## Forms

### Sample Example

### [Download the Example](#)

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <meta name="description" content="Page Description">
    <title>Forms - POST</title>
</head>

<body>
<h1>Form - POST</h1>
<form action="display.php" method="post">
    <fieldset>
        <legend>Student Enquiry Form</legend>
        <p>
            <label for="input_text">Text:</label>
            <input name ="input_text" type="text"
placeholder="Text">
        </p>
        <p>
            <label for="input_email">Email:</label>
```

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## Forms

```
<input name="input_email" type="email"
placeholder="test@domain.com">
</p>
</fieldset>
<p><input type="submit"> <input type="reset"></p>
</form>
</body>
</html>
```

**FileName: display.php**

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <meta name="description" content="Page Description">
  <title>Forms - POST</title>
</head>

<body>

<h1>Form - POST</h1>
<a href="index.php">Back to Home Page</a><br>
<?php

  $name = $_POST['input_text'];
```

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## Forms

```
$email = $_POST['input_email'];  
  
echo "Name: $name and Email: $email";  
?>  
</body>  
</html>
```

---

# Form - POST

[Back to Home Page](#)

Name: TEST and Email: TEST@TEST.COM

[Live Preview](#)

### Exercise 1

[Download the Exercise 1](#)

**Exercise 1:** Create a Form that accepts two numbers and show the calculation of those two numbers on another page. Use POST Method.

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# Form - POST

[Back to Home Page](#)

1 + 2 = 3

[Live Preview](#)

## Exercise 2

[Download the Exercise 2](#)

**Exercise 2:** Show the result on the same page and redirect to same page. Use POST Method.

Tips:

Check if the values are not empty

```
if( !empty( $_POST['input_text1'] ) && !empty(
$_POST['input_text2'] ) ){
```

# Form - POST

Answer:  $1 + 2 = 3$

Calculator

Number 1:

Number 2:

Submit

Reset

[Live Preview](#)

## 6.3 Cookies

### Usage of Cookies

Cookies are information that you can store at clients browser.

Cookies are stored in a file at the client system in name=value pair format.

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## Forms

Cookies helps to track what user is doing on the web page and send that information to server so that server knows what client did on the web page.

For every request, browser sends the cookies to server and if there are any changes to cookies then that information is also sent to the server.

Cookies helps to store information and capture the user actions on the web page inside it. This information is then sent to server.

Cookies last until the browser is closed. We can also manually set the expiration time for any cookie.

Some of the browser disable cookies in that case cookies will not work and also user can choose to change browser setting to not store cookies.

Cookies can help to change the view of the page based on the user actions.

### **How to Set a Cookie**

```
$name = 'WPFreelancer.com';  
$value = 20;  
$expire = strtotime('+1 year');  
$path = '/';  
//Its a name=value pair.  
setcookie($name, $value, $expire, $path);
```

### **How to Get a Cookie**

```
$_COOKIE[$cookie_name]
```

### **How to Delete a Cookie**

By setting the time last year all the cookies with that name are deleted.

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## Forms

```
$expire = strtotime('-1 year');  
setcookie('WPFreelancer.com', "", $expire, '/');
```

### Sample Example

#### [Download the Example](#)

```
<!DOCTYPE html>  
  
<html>  
  
<head>  
  
    <meta charset="utf-8">  
  
    <meta name="viewport" content="width=device-width, initial-  
scale=1.0">  
  
    <meta name="description" content="Page Description">  
  
    <title>Cookies</title>  
  
</head>  
  
  
<body>  
  
<h1>Cookies</h1>  
  
<?php  
  
    $cookie_name = "user";  
  
    $cookie_value = "WPFreelancer";  
  
    setcookie($cookie_name, $cookie_value, time() + (86400 *  
30), "/");  
  
  
    if(!isset($_COOKIE[$cookie_name])) {
```

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## Forms

```
        echo "Welcome '" . $cookie_value . "'. Nice to meet  
you!";  
  
    } else {  
  
        echo "Hey, '" . $cookie_value . "' you are back<br>";  
        echo "Value is: " . $_COOKIE[$cookie_name];  
  
    }  
  
?>  
</body>  
</html>
```

---

# Cookies

Hey, 'WPFreelancer' you are back  
Value is: WPFreelancer

**[Live Preview](#)**

**Exercise 1**

**[Download the Exercise 1](#)**

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## Forms

**Exercise 1:** Ask user to enter the cookie name on one page and check on the other page if the cookie is new or old.

Cookie is already in USE!

[Live Preview](#)

**Exercise 2**

[Download the Exercise 2](#)

**Exercise 2:** Add and check the cookie from same page.

# Cookies

Cookie is new

[Live Preview](#)

## 6.4 Session

### Usage of Sessions

Sessions is an array that is stored at the server based on the session id.

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## Forms

session id are generated when the user first time visit the site and this session id are stored in the cookie.

So, every time user make request to the server, this cookie is passed to the server with the sessionid and based this session id server is able to maintain an active session of the user.

If a session is already created for that specific user then PHP will not create a duplicate session.

By default, PHP uses a cookie to store a session ID in each browser. Then, the browser passes the cookie to the server with each request.

### Start Session

```
session_start();
```

is used to start a session.

### Create a Session Variable

```
session_start();  
$_SESSION["firstname"] = "WPFreelancer";
```

### Read a Session Variable

```
session_start();  
echo $_SESSION["firstname"];
```

### Delete a Session Variable

```
session_start();  
if(isset($_SESSION["firstname"])){  
unset($_SESSION["firstname"]);  
}
```

## Sample Example

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### [Download the Example](#)

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <meta name="description" content="Page Description">
    <title>Sessions</title>
</head>

<body>
<h1>Sessions</h1>
<?php

    session_start();

    //Create a Session
    $_SESSION["firstname"] = "WPFreelancer";

    echo $_SESSION["firstname"];

?>
</body>
```

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</html>

---

# Sessions

WPFreelancer

## [Live Preview](#)

### Exercise 1

## [Download the Exercise 1](#)

**Exercise 1:** Delete the session and print it again.

# Sessions

WPFreelancer

**Notice:** Undefined index: firstname in **E:\Dropbox\BootCamp\Code\4-PHP\6-forms-php\4-session-php\ex1\after\index.php** on line 29

## [Live Preview](#)

### Exercise 2

## [Download the Exercise 2](#)

**Exercise 2:** Create a form and accept a session value and store it and display it.

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# Sessions

WPFreelancer

Submit

Live Preview



# 7. Snippets

## 7 Snippets

### 7.1 Regex

#### Usage of Regex

Regular Expression are special searching pattern that is very powerful to search for matching pattern in text strings.

To start using the Regular expression we need to get the data between forward slash and then use the method `preg_match()` on the data and this pattern to search.

You create a pattern and then use method `preg_match()` to match on the data.

`preg_match()` method will return true or false.

#### SYNTAX:

```
preg_match($pattern, $data);
```

```
$pattern = "/WP/";
```

```
$sitename = "WP Freelancer";
```

```
$found = preg_match($pattern, $sitename);
```

`$found` will have true or false.

Some patterns:

`.` – Any Single Character

`\w` – Any Letter, number or underscore

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## Snippets

\W – Any character

\d – Any Digit

\s – White Space Character

\S – Any Character that is not whitespace.

### Sample Example

#### [Download the Example](#)

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <meta name="description" content="Page Description">
    <title>Regular Expressions</title>
</head>

<body>
<h1>Regular Expressions</h1>
<?php

    $pattern = '/WP/';
    $sitename = "WPFreelancer";
    $found = preg_match($pattern, $sitename);
    echo $found;
```

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```
?>  
</body>  
</html>
```

---

# Regular Expressions

1

[Live Preview](#)

**Exercise 1**

[Download the Exercise 1](#)

**Exercise 1:** Search incase sensitive search for the same string.

Regular Expression: \$pattern = '/wp/i';

# Regular Expressions

1

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**Exercise 2**

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## [Download the Exercise 2](#)

**Exercise 2:** Match a pincode p-104848 in the string.

Regular Expression: \$pattern = '/p-\d/';

# Regular Expressions

1

## [Live Preview](#)

# 8. PROJECTS

## 8 Projects

### 8.1 Save Student Registration Form Data to File

In this Project, you will write a simple application where user will his details and when submitted the data is save in a text file in append mode.

---

[Download the Exercise 1](#)

# Save Form Data To File

Student Enquiry Form

Text:

Email:

- ☐ Male  
☒ Female

Hobbies ☒ Surfing  
☒ Watching TV  
☒ Playing Sports

---

## Form - GET

[Back to Home Page](#)

Data Written to file

---

[Live Preview](#)

## EXERCISE 1:

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The above program will throw error when checkbox is not checked. This is on purpose.

You need find out first if the parameter exists in that array `$_GET` and then assign the value to variable.

Use the empty method to check if the variable is empty before inserting.

## **EXERCISE 2:**

Make a function to save the content and save it in functions.php

Include the functions.php file and call this function.

## 8.2 Online Test

In this Project, you will write a simple application online test with some question. Once user provide the answer he immediately verify the result.

---

[Download the Exercise 1](#)

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# Online Test

Result: 30

Online Test

What is JS Stands for?

- ☒ JavaScript
- ☐ JavaSight

What is HTML stands for?

- ☒ HyperText Transport Protocol
- ☐ Hyper Text Transfer Protocol

What is CSS stands for?

- ☒ Cascaded Style sheet
- ☐ Cascaded Single Sheet!

Submit

Reset

---

[Live Preview](#)

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## EXERCISE 1:

Change the \$\_GET to \$\_POST and perform the same operation.

## EXERCISE 2:

Display the result on the next page.

## 8.3 Online Calculator

In this Project, you will write a simple calculator application where user will enter the values and our program will calculate various math formulas.

---

**[Download the Exercise 1](#)**



# Calculator

Input Value A: 10 and 15

Operation	Value
Add	25
Minus	-5
Multiply	150
Divide	0.666666666666667

Calculator

Value 1:  Value 2:

Submit

Reset

## Live Preview

### EXERCISE 1:

Add some Math formulas and add to the table.

### EXERCISE 2:

Add some styling to the table.

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