PHP

Basic Syntax

ex1.php - Hello World

```
<!DOCTYPE html>
<html>
<?php
  echo "Hello World!";
?>
</html>
```

Comments

```
<?php
//Single line comment
/*
Multi Line Comment
*/
?>
```

Variables and Data Types

ex2.php

```
<?php
$myStr = "PHP!"; //string
$myInt = 420; //Integer
$myFloat = 1.43 //Float
$myArr = array('A', 'B', 25); //Array
?>
```

If Statements

Syntax

```
if (condition) {
       code to be executed if the
       condition is true;
}
```

Example - ex3.php

```
$A = 40;
$B = 30;

if($A > $B){
    echo "A is the largest";
}
```

If … Else Statements

Syntax

```
if (condition) {
       code to be executed if the
       condition is true;
}else{
       code to be executed if the
       condition is false;
}
```

Example - ex4.php

```
$C = 40;
$D = 30;

if($C > $D){
    echo "C is the largest";
}else{
    Echo "D is the largest"
}
```

If … Else Statements

Syntax

```
if (condition) {
       code to be executed if the
       condition is true;
}else{
       code to be executed if the
       condition is false;
}
```

Example - ex5.php

```
$E = 23;
$F = 23;

if($E > $F){
    echo "E is the largest";
}elseif ( $E == $F) {
    echo "E and F are equal";
}else{
    echo "F is the largest";
}
```

PHP

while loop

Syntax

```
while (condition is true) {
      code to be executed;
}
```

Example - ex6.php

```
$counter= 0;

while($counter < 5){
    echo $counter. "<br>";
}
```

do … while loop

Syntax

```
do {
    code to be executed;
} while (condition is true);
```

Example - ex7.php

```
$counter = 0;
do {
    echo $counter . "<br>";
    $counter = $counter + 1;
} while ($counter < 5);
```

for loop

Syntax

```
for (init counter; test counter;
increment counter) {
    code to be executed for each
    iteration;
}
```

Example - ex8.php

```
for ($x = 0; $x <= 10; $x++) {
    echo  $x . "<br>";
}
```

For loop

Syntax

```
for (init counter; test counter;
increment counter) {
    code to be executed for each
    iteration;
}
```

Example - ex8.php

```
for ($x = 0; $x <= 10; $x++) {
    echo  $x . "<br>";
}
```

Receive data from HTML Forms

HTML Form - form.html

```
<form method="GET" action="getForm.php">
     Name:
     <input type="text" name="name" />
     <br>
     Email:
     <input type="text" name="email" />
     <br>
     <input type="submit" value="Submit"/>
</form>
```

PHP File - getForm.php

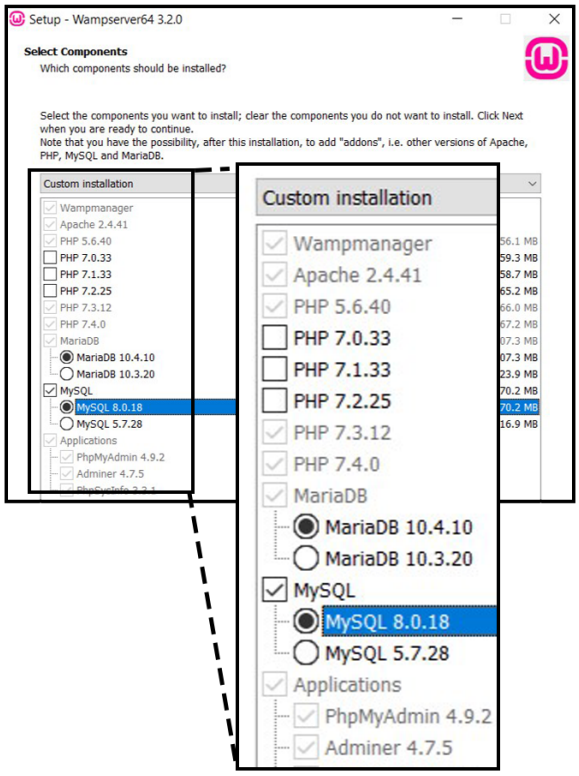
```
<html>
<?php
$name = $_GET["name"];
$email = $_GET["email"];

echo "Welcome, $name <br>";
echo "Your email is $email";

?>
</html>
```

**Never use method="GET" to send passwords through forms*

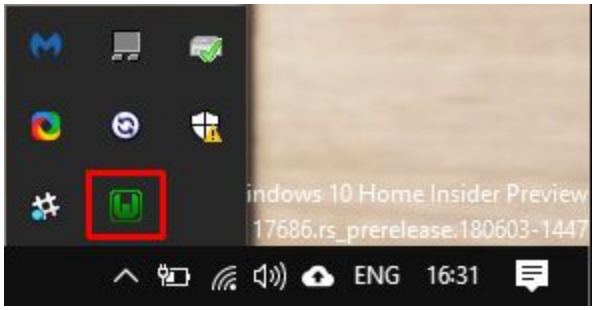
WAMP Server Setup

1. Download and install WAMP Server from: *http://www.wampserver.com/*

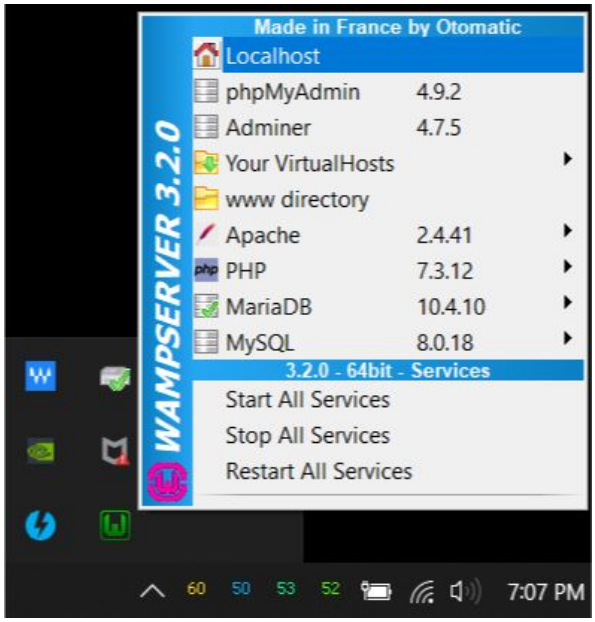
**Make sure you select MySql in the setup*



2. Open WAMP Server and wait until the system tray WAMP Icon turns green



3. Click 'localhost' in the WAMP server menu to go to the hosted website



Storing HTML Form data into an SQL Database

Commands to create a test database and a table

SQL Console (WAMP > MySql > MySql Console)

```
CREATE DATABASE testDB;
USE testDB;
CREATE TABLE testTable(
      id varchar(6) PRIMARY KEY,
      name varchar(20),
      email varchar(20)
     );

SHOW TABLES;
```

HTML Form

sqlForm.html

```
<form method="GET" action="saveSql.php">
     ID:
     <input type="text" name="id" />
     <br>
     Name:
     <input type="text" name="name" />
     <br>
     Email:
     <input type="text" name="email" />
     <br>
     <input type="submit" value="Submit"/>
</form>
```

saveSql.php

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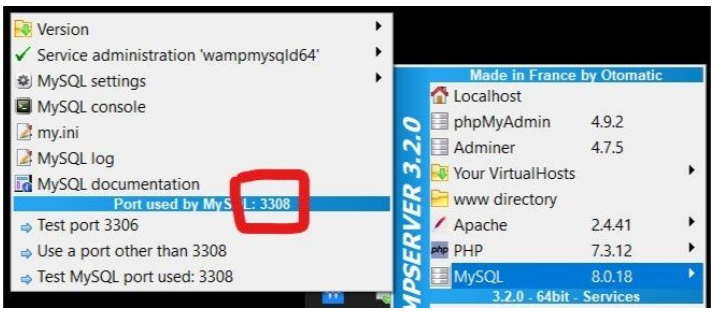
```
<?php
//Get data from the form
$id = $_GET[“id”];
$name = $_GET[“name”];
$email = $_GET[“email”];

$servername = "localhost:3308"; //replace
            3308 with your SQL port number
$username = "root";
$password = ""; //default
$dbname = "testDB"; //database name

//Create connection
$conn = new mysqli($servername, $username,
        $password, $dbname);

//Check connection
if ($conn->connect_error) {
    die("Connection failed: " .
   $conn->connect_error);
}

$sql = "INSERT INTO testtable(id,name,email)
        VALUES (‘$id’, ‘$name’, ‘$email’ )";

//run the SQL Query and check if it was
successful
if ($conn->query($sql) === TRUE) {
    echo "New record created successfully";
} else {
    echo "Error";
}

$conn->close();
?>
```