**Experiment-01**

**Design PHP based web pages using correct PHP, CSS, and XHTML syntax, structure.**

<!DOCTYPE html>

<head>

<title>My PHP-based Web Page</title>

<style type="text/css">

/\* CSS styles go here \*/

body {

font-family: Arial, sans-serif;

background-color: #f0f0f0;

}

h1 {

color: #333;

text-align: center;

margin-top: 50px;

}

.container {

width: 80%;

margin: 0 auto;

}

.date {

font-size: 20px;

text-align: center;

color: #555;

margin-top: 20px;

}

.card {

background-color: #fff;

padding: 20px;

box-shadow: 0px 0px 10px #ddd;

border-radius: 5px;

margin-top: 20px;

}

/\* Adding background color on hover \*/

.card:hover {

background-color: #f9f9f9;

}

</style>

</head>

<body>

<div class="container">

<h1>Welcome to my PHP-based web page!</h1>

<div class="card">

<p class="date">Today's date is <?php echo date('l, F jS, Y'); ?></p>

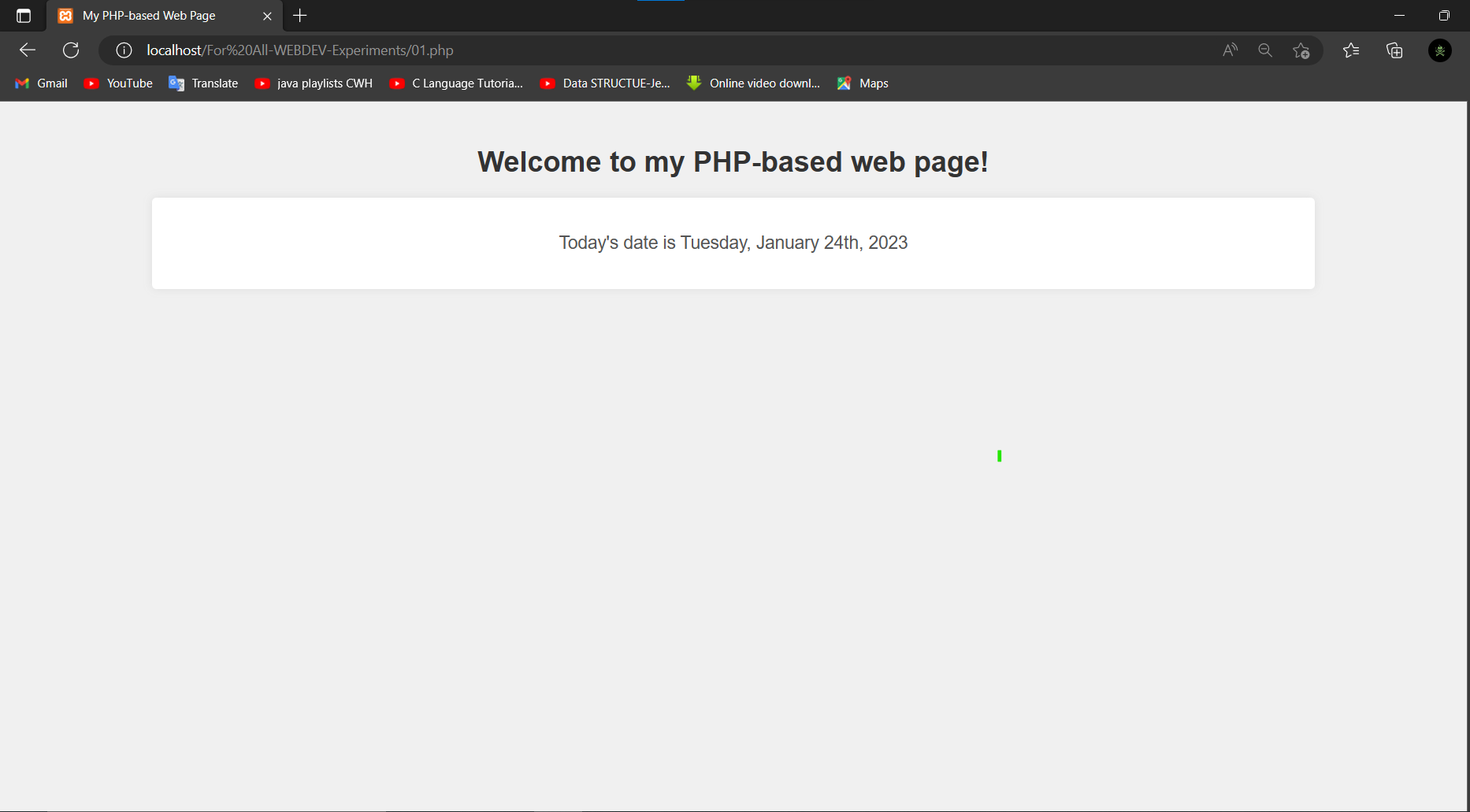
</div>

</div>

</body>

</html>

**Output:**

****

**Experiment-02**

**Create Web forms and pages that properly use HTTP GET and POST protocol as**

**appropriate.**

<?php

// define variables and set to empty values

$nameErr = $emailErr = $genderErr = $websiteErr = "";

$name = $email = $gender = $comment = $website = "";

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

if (empty($\_POST["name"])) {

$nameErr = "Name is required";

} else {

$name = test\_input($\_POST["name"]);

// check if name only contains letters and whitespace

if (!preg\_match("/^[a-zA-Z-' ]\*$/",$name)) {

$nameErr = "Only letters and white space allowed";

}

}

if (empty($\_POST["email"])) {

$emailErr = "Email is required";

} else {

$email = test\_input($\_POST["email"]);

// check if e-mail address is well-formed

if (!filter\_var($email, FILTER\_VALIDATE\_EMAIL)) {

$emailErr = "Invalid email format";

}

}

if (empty($\_POST["website"])) {

$website = "";

} else {

$website = test\_input($\_POST["website"]);

// check if URL address syntax is valid (this regular expression also allows dashes in the URL)

if (!preg\_match("/\b(?:(?:https?|ftp):\/\/|www\.)[-a-z0-9+&@#\/%?=~\_|!:,.;]\*[-a-z0-9+&@#\/%=~\_|]/i",$website)) {

$websiteErr = "Invalid URL";

}

}

if (empty($\_POST["comment"])) {

$comment = "";

} else {

$comment = test\_input($\_POST["comment"]);

}

if (empty($\_POST["gender"])) {

$genderErr = "Gender is required";

} else {

$gender = test\_input($\_POST["gender"]);

}

}

function test\_input($data) {

$data = trim($data);

$data = stripslashes($data);

$data = htmlspecialchars($data);

return $data;

}

?>

<!DOCTYPE HTML>

<html>

<head>

<style>

.error {color: #FF0000;}

</style>

</head>

<body>

<h2>PHP Form </h2>

<p><span class="error">\* required field</span></p>

<form method="post" action="<?php echo htmlspecialchars($\_SERVER['PHP\_SELF']);?>">

Name: <input type="text" name="name" value="<?php echo $name;?>">

<span class="error">\* <?php echo $nameErr;?></span>

<br><br>

E-mail: <input type="text" name="email" value="<?php echo $email;?>">

<span class="error">\* <?php echo $emailErr;?></span>

<br><br>

Website: <input type="text" name="website" value="<?php echo $website;?>">

<span class="error"><?php echo $websiteErr;?></span>

<br><br>

Comment: <textarea name="comment" rows="5" cols="40"><?php echo $comment;?></textarea>

<br><br>

Gender:

<input type="radio" name="gender" <?php if (isset($gender) && $gender=="female") echo "checked";?>value="female">Female

<input type="radio" name="gender" <?php if (isset($gender) && $gender=="male") echo "checked";?> value="male">Male

<input type="radio" name="gender" <?php if (isset($gender) && $gender=="other") echo "checked";?> value="other">Other

<span class="error">\* <?php echo $genderErr;?></span>

<br><br>

<input type="submit" name="submit" value="Submit">

</form>

<?php

echo "<h2>Your Input:</h2>";

echo $name;

echo "<br>";

echo $email;

echo "<br>";

echo $website;

echo "<br>";

echo $comment;

echo "<br>";

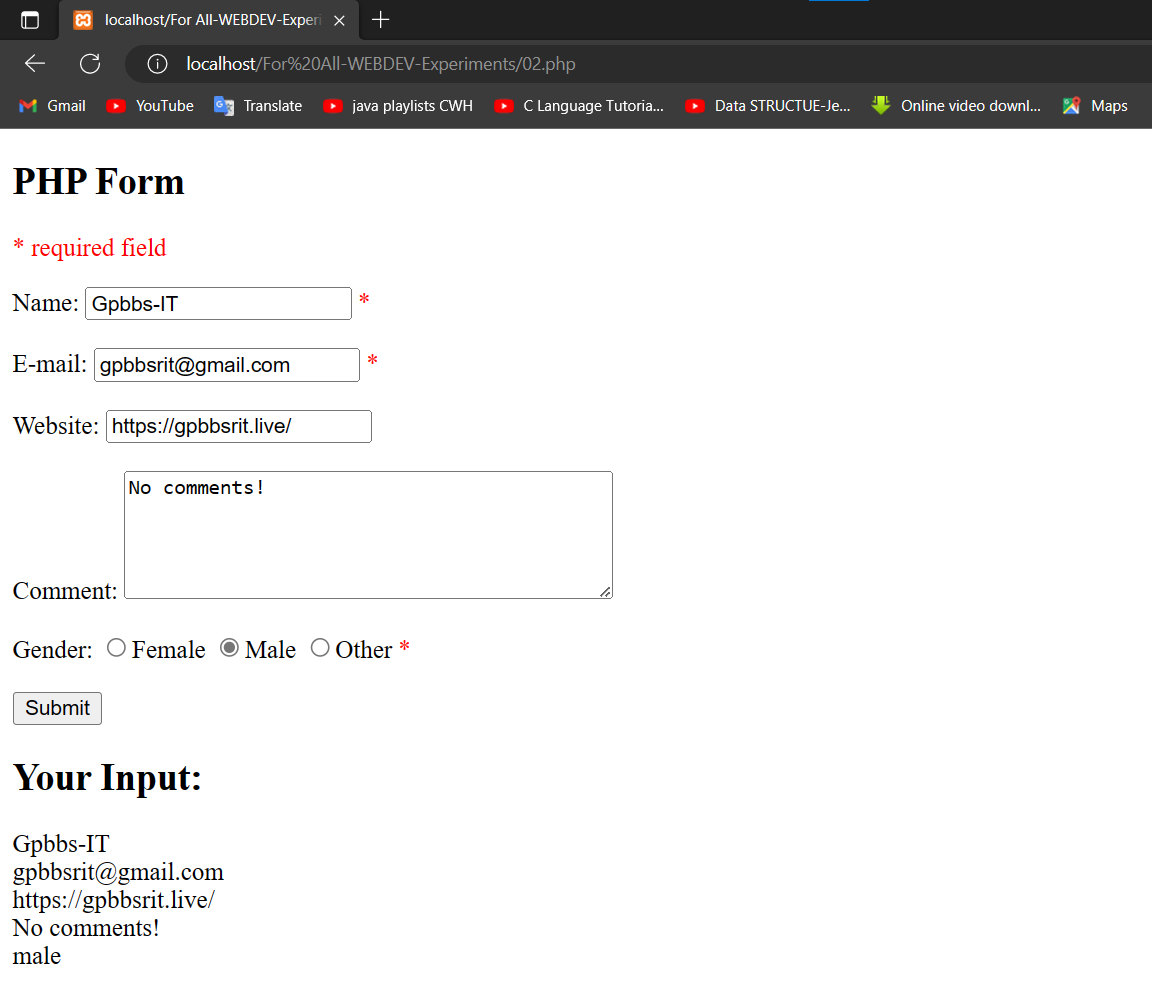
echo $gender;

?>

</body>

</html>

**Output:**



**Experiment-03**

**Design SQL language within My SQL and PHP to access and manipulate databases.**

<?php

$dbhost = 'localhost';

$dbuser = 'root';

$dbpass = '';

$con = mysqli\_connect($dbhost, $dbuser, $dbpass);

if(! $con ) {

die('Could not connect: ' . mysqli\_error($con));

}

echo 'Connected successfully';

$sql = 'CREATE Database student';

$retval = mysqli\_query($con,$sql);

if(! $retval ) {

die('Could not create database: ' . mysqli\_error($con));

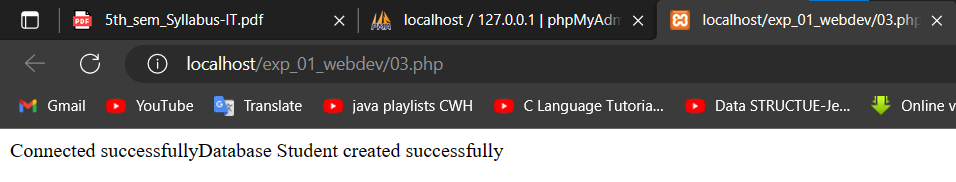
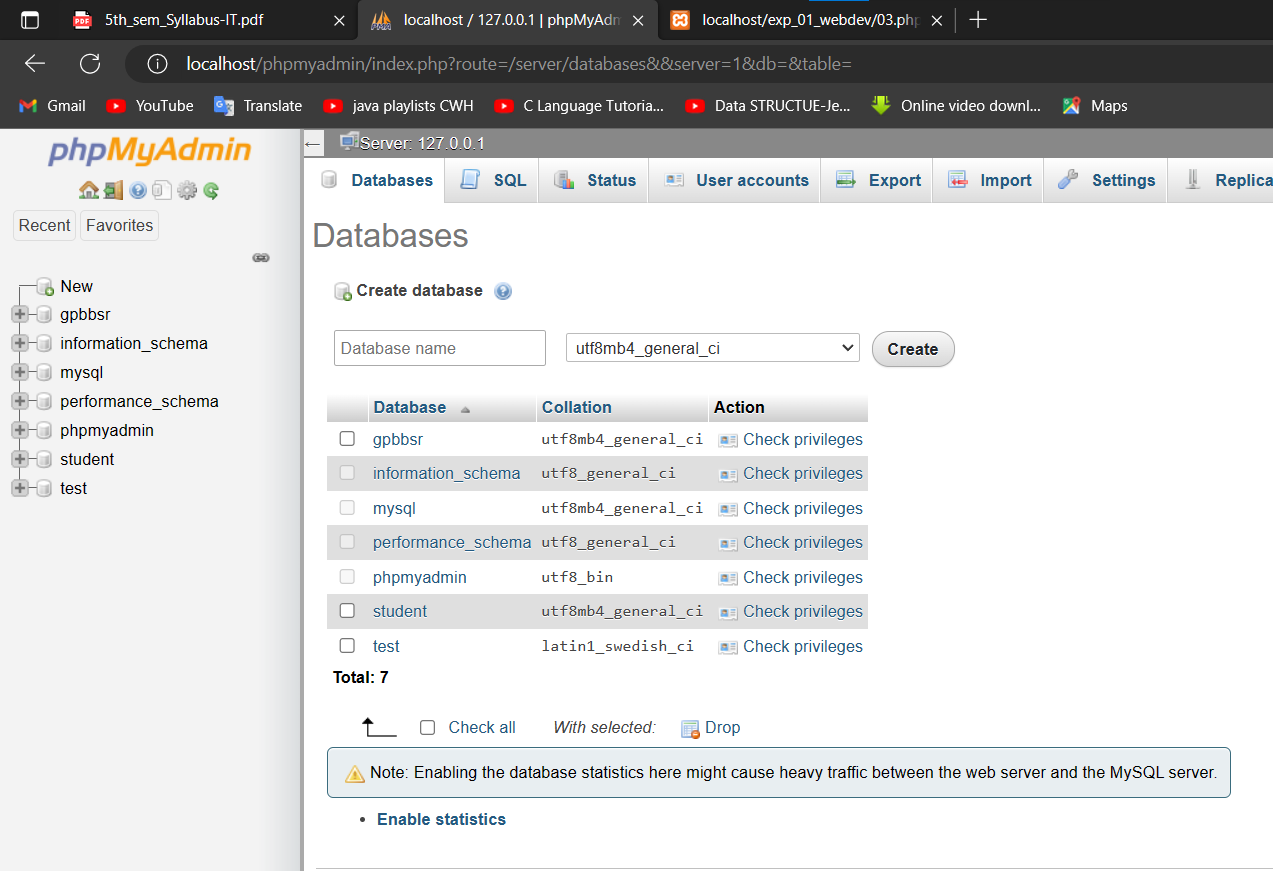
}

echo "Database Student created successfully\n";

mysqli\_close($con);

?>

**Output:**



**Experiment-04**

**Install and configure both PHP and My SQL.**

This article provides step-by-step installation guide for Windows as a development machine. Other releases of MySQL should have similar installation process.

**Step #1: Download MySQL 5 for Windows**

Download version 5.0 MySQL

**Step #2: Install MySQL**

Double click the MSI installer to start installing MySQL.I will go through a setup wizard so it's fairly simple.

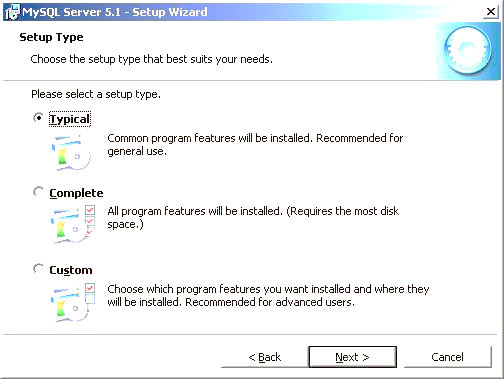
1. Welcome to the Setup Wizard for MySQL Server 5 Click Next to continue.



(2) Select a setup type - Typical, Complete, Custom.

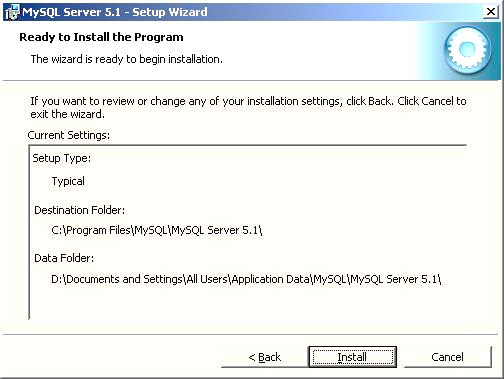
Select Typical and click Next.

The default insllation directory will be C:\Programs Files\MySQL\MySQL Server 5.0\

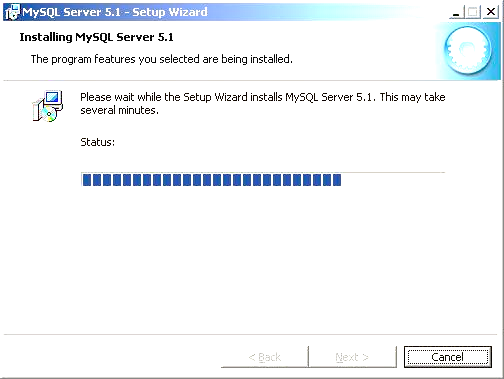


(3) Ready to install MySQL.

After review the settings, click Install. If you want to change any settings, click [Back] button.

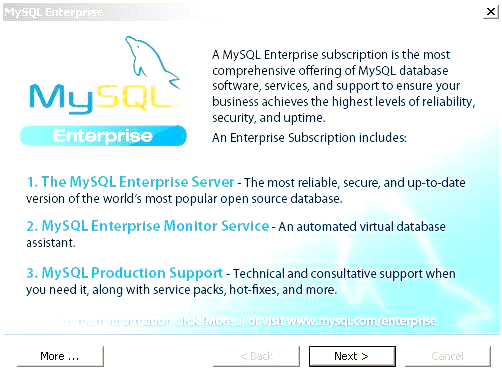


(4) Installation in progress.



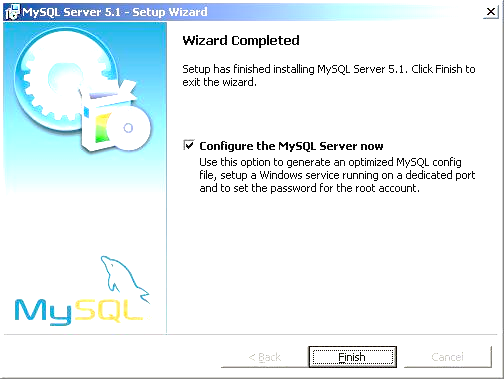
(5) More information about MySQL Enterprise Subscription.

This step is just an informational step for MySQL Enterprise Subscription. Click the [More...] button if you want to know more. Otherwise, click [Next] to go to next step.



(6) Setup Wizard Completed.

Make sure you have selected 'Configure the MySQL Server now' checkbox if you want to configure it after clicking Finish button.



**PHP installation**

Step 1) Download XAMPP

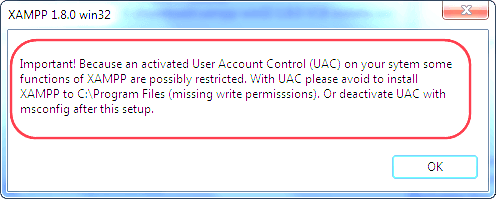
Click here to XAMPP download for Windows: <http://www.apachefriends.org/en/xampp-windows.html>

Step 2) Start Installation

XAMPP Installation is just like installing any other windows program. There are however, a few things that we must note.

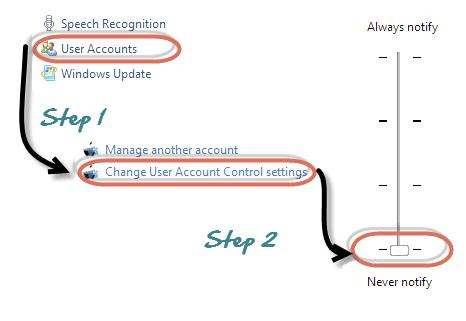
**Step 3) Run the Setup**

After you have downloaded XAMPP, run the setup. The warning message dialog window shown below appears.

[](https://www.guru99.com/images/2013/04/xampp_uac.png)

Step 4) Change User Control Settings

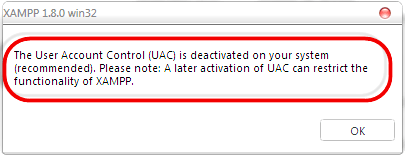
If you are using Windows Vista or Windows 7, make sure that you deactivate the User Account Control feature. To do this, Select Control Panel >  User Accounts >  Change User Access Control settings. The diagram below illustrates the main steps.

[](https://www.guru99.com/images/2013/04/deactivate_uac.png)

Step 5) Save the settings

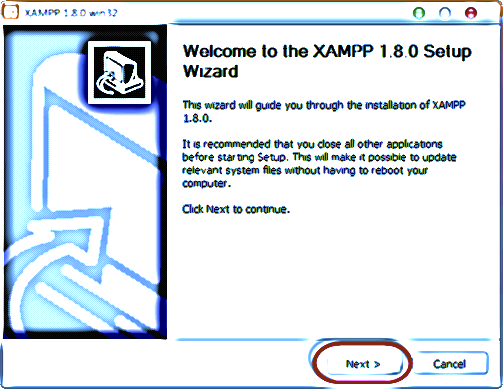
After you have deactivated the User Account Control, click on OK button on the warning message box.

This time you get following message

[](https://www.guru99.com/images/2013/04/uac_deactivated.png)

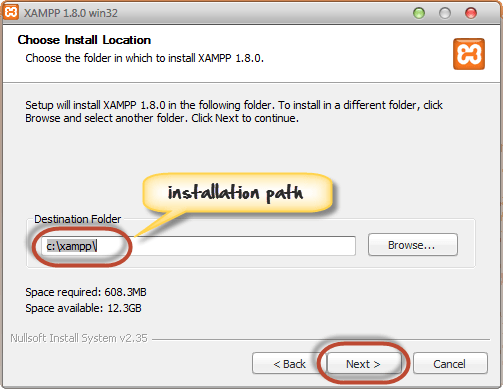
Step 6) Click Next

In the succeeding screen, click next

[](https://www.guru99.com/images/2013/04/xampp_install_step_1.png)

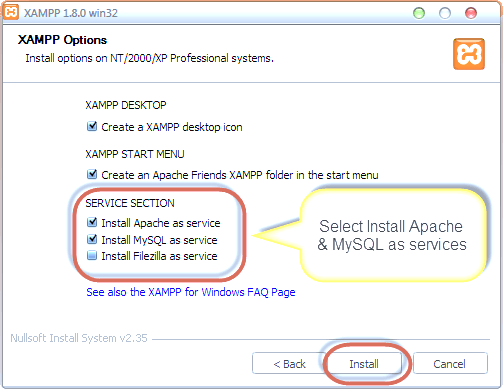
Step 7) Choose the Insatllation path

In the next screen, Change the installation path if required. Click Next

[](https://www.guru99.com/images/2013/04/xampp_install_step_2.png)

Step 8) Check the necessary services

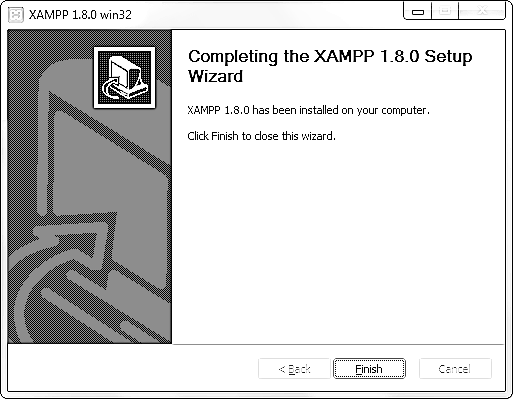
In the next screen select Apache and MySQL. You may optionally select FileZilla (FTP Client) if needed. Click Install

[](https://www.guru99.com/images/2013/04/xampp_install_step_3.png)

**Note** a service is a long-running program in windows that does not require user intervention. Services can be set to run automatically whenever the windows operating system is started.**For you to use Apache and MySQL, they are supposed to be running in the background**. **Installing them as services runs both Apache and MySQL automatically in the background whenever you power up your computer**. If you have not installed Apache and MySQL as services, then you have to manually start them every time that you want to use them. You will have to do this from the XAMPP control panel.PHP and

Step 9) Finish the installation

On successful completion of installation, you will see following window

[](https://www.guru99.com/images/2013/04/xampp_install_step_4.png)

Click on Finish button

**Experiment-05**

**Create PHP code that utilizes the commonly used API library functions built in to PHP.**

<?php  
require \_\_DIR\_\_ . '/vendor/autoload.php';  
  
/\*\*  
 \* Returns an authorized API client.  
 \* @return Google\_Client the authorized client object  
 \*/  
function getClient()  
{  
    $client = new Google\_Client();  
    $client->setApplicationName('Google Docs API PHP Quickstart');  
    $client->setScopes(Google\_Service\_Docs::DOCUMENTS\_READONLY);  
    $client->setAuthConfig('credentials.json');  
    $client->setAccessType('offline');  
  
    // Load previously authorized credentials from a file.  
    $credentialsPath = expandHomeDirectory('token.json');  
    if (file\_exists($credentialsPath)) {  
        $accessToken = json\_decode(file\_get\_contents($credentialsPath), true);  
    } else {  
        // Request authorization from the user.  
        $authUrl = $client->createAuthUrl();  
        printf("Open the following link in your browser:\n%s\n", $authUrl);  
        print 'Enter verification code: ';  
        $authCode = trim(fgets(STDIN));  
  
        // Exchange authorization code for an access token.  
        $accessToken = $client->fetchAccessTokenWithAuthCode($authCode);  
  
        // Store the credentials to disk.  
        if (!file\_exists(dirname($credentialsPath))) {  
            mkdir(dirname($credentialsPath), 0700, true);  
        }  
        file\_put\_contents($credentialsPath, json\_encode($accessToken));  
        printf("Credentials saved to %s\n", $credentialsPath);  
    }  
    $client->setAccessToken($accessToken);  
  
    // Refresh the token if it's expired.  
    if ($client->isAccessTokenExpired()) {  
        $client->fetchAccessTokenWithRefreshToken($client->getRefreshToken());  
        file\_put\_contents($credentialsPath, json\_encode($client->getAccessToken()));  
    }  
    return $client;  
}  
  
/\*\*  
 \* Expands the home directory alias '~' to the full path.  
 \* @param string $path the path to expand.  
 \* @return string the expanded path.  
 \*/  
function expandHomeDirectory($path)  
{  
    $homeDirectory = getenv('HOME');  
    if (empty($homeDirectory)) {  
        $homeDirectory = getenv('HOMEDRIVE') . getenv('HOMEPATH');  
    }  
    return str\_replace('~', realpath($homeDirectory), $path);  
}  
// Get the API client and construct the service object.  
$client = getClient();  
$service = new Google\_Service\_Docs($client);  
  
// Prints the title of the requested doc:  
// https://docs.google.com/document/d/195j9eDD3ccgjQRttHhJPymLJUCOUjs-jmwTrekvdjFE/edit  
$documentId = '195j9eDD3ccgjQRttHhJPymLJUCOUjs-jmwTrekvdjFE';  
$doc = $service->documents->get($documentId);  
  
printf("The document title is: %s\n", $doc->getTitle());

**Experiment-06**

**Design and create a complete web site that demonstrates good PHP/My SQL**

**client/server design.**

**Index.php:**

<?php

    $insert = false;

    if(isset($\_POST['name'])){

    //connection variables

    $server="localhost";

    $username="root";

    $password="";

    //create connection

    $connection = mysqli\_connect($server,$username,$password);

    if (!$connection) {

        die("Could not connect to database" . mysqli\_connect\_error());

    }

    //echo "Connection established";

    //collect post variables

    $email = $\_POST['email']?? "";

    $name = $\_POST['name']?? "";

    $gend= $\_POST['gender']?? "";

    $age = $\_POST['age']?? "";

    $desc = $\_POST['desc']?? "";

    $sql = "INSERT INTO `trip`.`trip` ( `name`, `email`, `gender`, `age`, `msg`) VALUES ( '$name', '$email', '$gend', '$age', '$desc');";

    //echo $sql;

    //Execute tthe query

    if($connection->query($sql) == true) {

        //echo "Successfully inserted trip";

        //flag for successful insertion

        $insert = true;

    }

    else {

        echo "Error: $sql <br> $connection->error";

    }

    //close connection

    $connection->close();

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

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

    <title>Document</title>

    <link rel="stylesheet" href="style.css">

</head>

<body>

    <div class="cont">

        <h3>Welcome to GPBBSR</h3>

        <p>Fillup the form for comform your participation</p>

        <?php

        if($insert == true) {

        echo "<p class='submsg' style='color:rgb(0, 128, 0); font-weight:bold;'>Thanks For submitting your form</p>";

        }

?>

        <form action="index.php" method="post">

            <input type="text" name="name" id="name" placeholder="Full name" required>

            <input type="text" name="email" id="email" placeholder="Email" required>

            <input type="text" name="gender" id="gender" placeholder="gender" required>

            <input type="text" name="age" id="age" placeholder="Age" required>

            <textarea name="desc" id="desc" cols="30" rows="10" placeholder="your message"></textarea>

            <button class="btn">Submit</button>

            <button class="btn">Reset</button>

    </div>

    <script src="script.js"></script>

</body>

</html>

**style.css:**

\* {

    padding: 0;

    margin: 0;

}

.cont {

    max-width: 80%;

    background-color: rgb(159, 255, 223);

    padding: 35px;

    margin: auto;

}

.cont h3,p {

    text-align: center;

}

input, textarea {

    width: 80%;

    margin: 15px;

    padding: 10px;

    font-size: 16px;

    border-radius: 5px;

    outline: none;

    display: block;

}

form {

    display: flex;

    align-items: center;

    justify-content: center;

    flex-direction: column;

}

h3 {

    font-size: 2.7rem;

}

p {

    font-size: 1.5rem;

}

.btn {

    color: #fff;

    padding: 8px 10px;

    border: 2px solid black;

    font-size: 20px;

    border-radius: 5px;

    background-color: rgb(38, 0, 53);

}

**trip.sql:**-- phpMyAdmin SQL Dump

-- version 5.1.0

-- https://www.phpmyadmin.net/

--

-- Host: 127.0.0.1

-- Generation Time: Sep 11, 2021 at 07:29 AM

-- Server version: 10.4.19-MariaDB

-- PHP Version: 8.0.6

SET SQL\_MODE = "NO\_AUTO\_VALUE\_ON\_ZERO";

START TRANSACTION;

SET time\_zone = "+00:00";

/\*!40101 SET @OLD\_CHARACTER\_SET\_CLIENT=@@CHARACTER\_SET\_CLIENT \*/;

/\*!40101 SET @OLD\_CHARACTER\_SET\_RESULTS=@@CHARACTER\_SET\_RESULTS \*/;

/\*!40101 SET @OLD\_COLLATION\_CONNECTION=@@COLLATION\_CONNECTION \*/;

/\*!40101 SET NAMES utf8mb4 \*/;

--

-- Database: `trip`

--

-- --------------------------------------------------------

--

-- Table structure for table `trip`

--

CREATE TABLE `trip` (

`$no` int(3) NOT NULL,

`name` text NOT NULL,

`email` varchar(55) NOT NULL,

`gender` varchar(8) NOT NULL,

`age` int(3) NOT NULL,

`msg` varchar(555) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

--

-- Dumping data for table `trip`

--

INSERT INTO `trip` (`$no`, `name`, `email`, `gender`, `age`, `msg`) VALUES

(1, 'gpbbsrit1', 'gpbbsrit1@gmail.com', 'male', 19, 'AA'),

(2, 'gpbbsrit2', 'gpbbsrit2@gmail.com', 'male', 20, 'BB'),

(3, 'gpbbsrit3', 'gpbbsrit3@gmail.com', 'Male', 21, 'CC'),

(4, 'gpbbsrit4', 'gpbbsrit4@gmail.com', 'Male', 22, 'DD');

--

-- Indexes for dumped tables

--

--

-- Indexes for table `trip`

--

ALTER TABLE `trip`

ADD PRIMARY KEY (`$no`);

--

-- AUTO\_INCREMENT for dumped tables

--

--

-- AUTO\_INCREMENT for table `trip`

--

ALTER TABLE `trip`

MODIFY `$no` int(3) NOT NULL AUTO\_INCREMENT, AUTO\_INCREMENT=5;

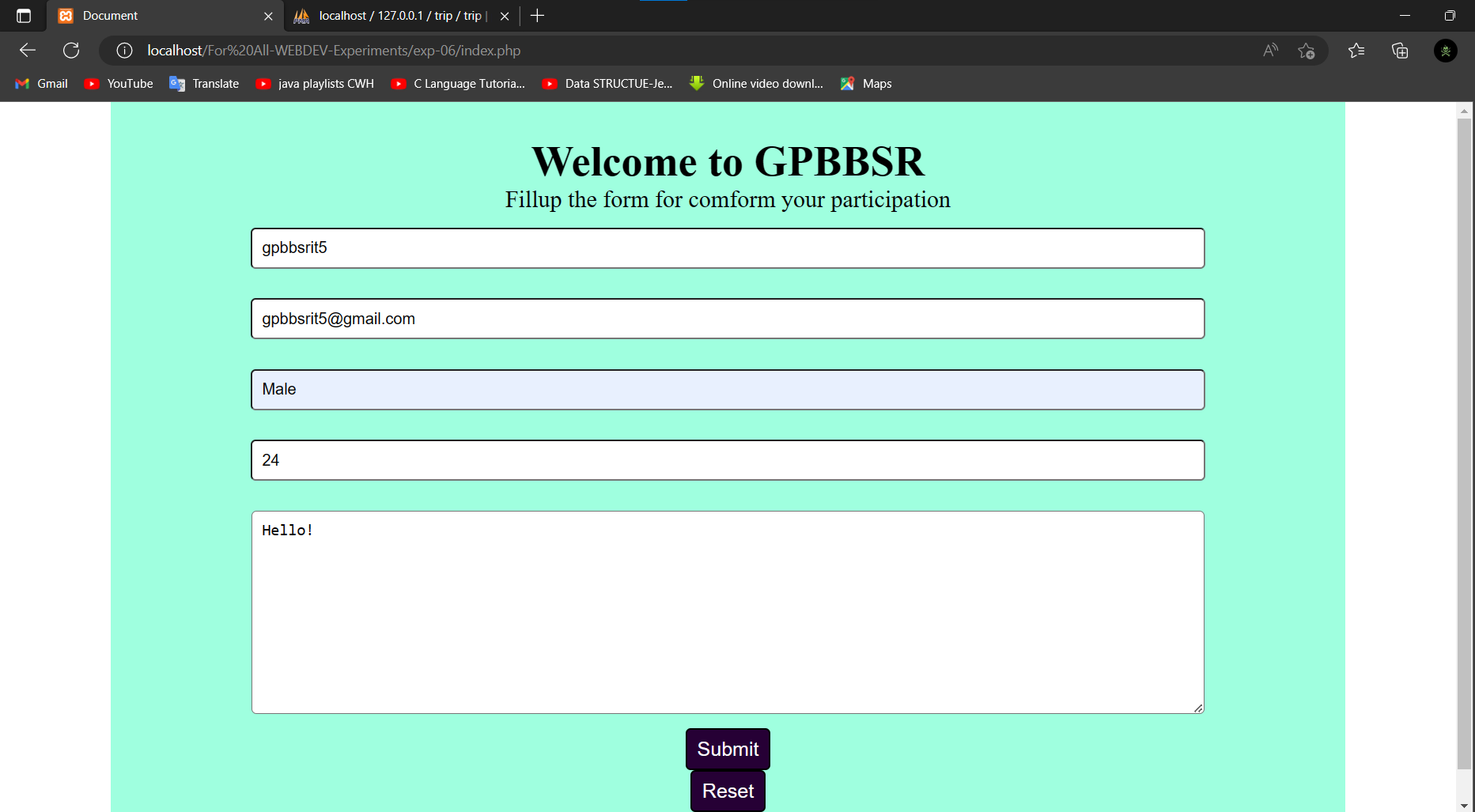
COMMIT;

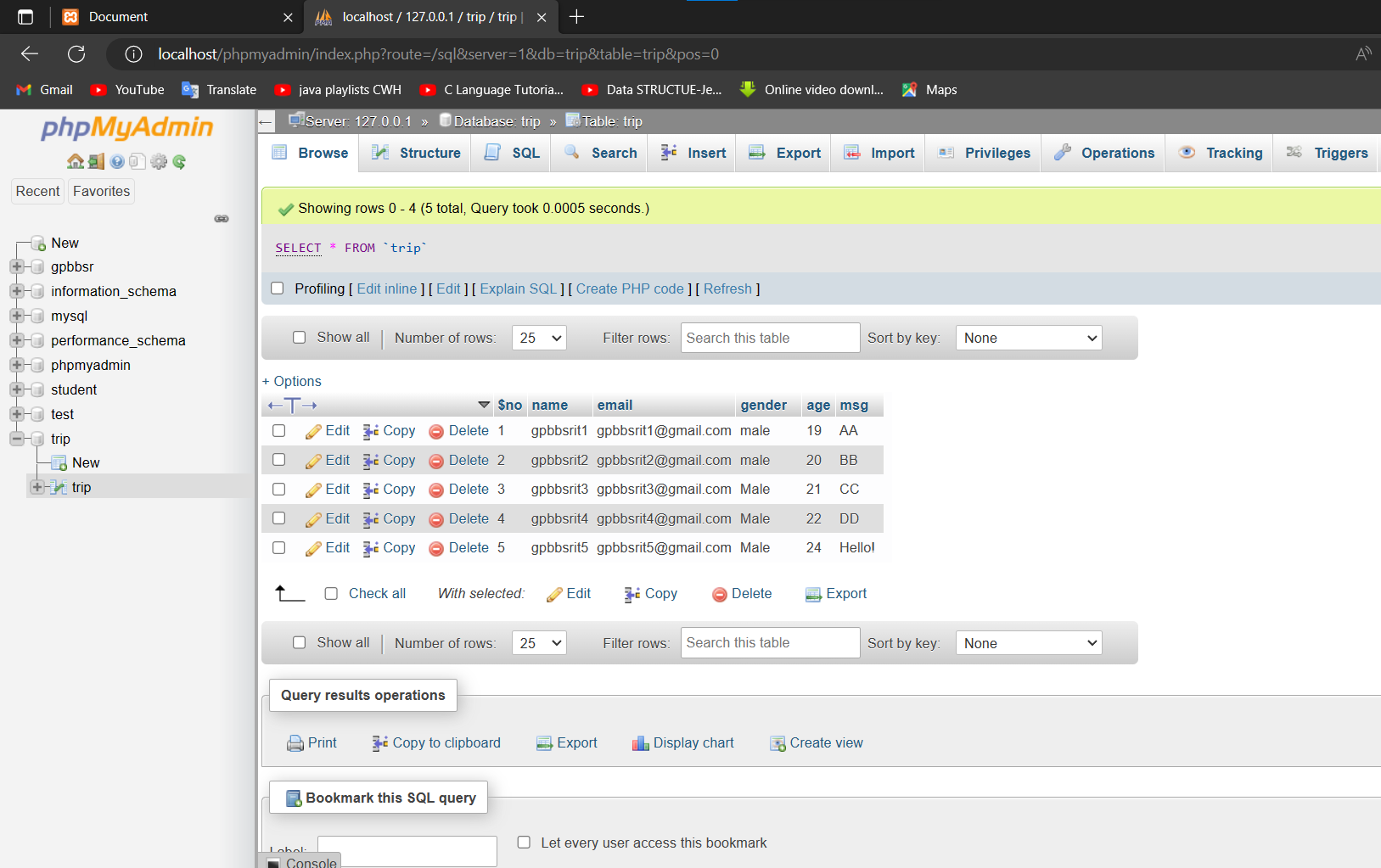
/\*!40101 SET CHARACTER\_SET\_CLIENT=@OLD\_CHARACTER\_SET\_CLIENT \*/;

/\*!40101 SET CHARACTER\_SET\_RESULTS=@OLD\_CHARACTER\_SET\_RESULTS \*/;

/\*!40101 SET COLLATION\_CONNECTION=@OLD\_COLLATION\_CONNECTION \*/;

**Output:**





**Experiment-07**

**To store a cookie using PHP on client side.**

<!DOCTYPE html>

<?php

$cookie\_name = "user";

$cookie\_value = "John Doe";

setcookie($cookie\_name, $cookie\_value, time() + (86400 \* 30), "/"); // 86400 = 1 day

?>

<html>

<body>

<?php

if(!isset($\_COOKIE[$cookie\_name])) {

echo "Cookie named '" . $cookie\_name . "' is not set!";

} else {

echo "Cookie '" . $cookie\_name . "' is set!<br>";

echo "Value is: " . $\_COOKIE[$cookie\_name];

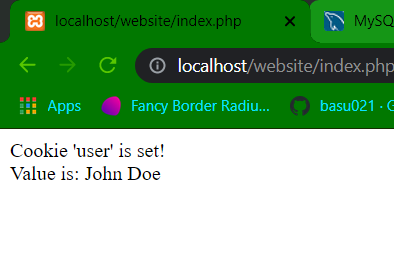
}

?>

</body>

</html>

**Output:**

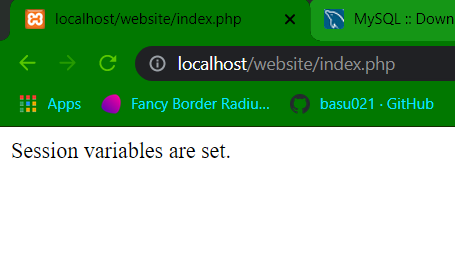


**Experiment-08**

**To save the user session on server side.**

<?php  
// Start the session  
session\_start();  
?>  
<!DOCTYPE html>  
<html>  
<body>  
<?php  
// Set session variables  
$\_SESSION["favcolor"] = "blue";  
$\_SESSION["favanimal"] = "cow";  
echo "Session variables are set.";  
?>  
  
</body>  
</html>

**Output:**



**Experiment-09**

**Design website.**Solution-A Portfolio Website

**HTML:**

<!DOCTYPE html>

<html>

<head>

<title>My Portfolio</title>

<link rel="stylesheet" type="text/css" href="style.css">

</head>

<body>

<header>

<h1>My Portfolio</h1>

<nav>

<a href="#about">About</a>

<a href="#work">Work</a>

<a href="#contact">Contact</a>

</nav>

</header>

<section id="about">

<h2>About Me</h2>

<p>I am a web developer with experience in HTML, CSS, and JavaScript. I enjoy creating clean and user-friendly websites.</p>

</section>

<section id="work">

<h2>My Work</h2>

<ul>

<li>

<h3>Website 1</h3>

<img src="website1.jpg" alt="Website 1" height="50" width="10">

<p>A description of the website.</p>

</li>

<li>

<h3>Website 2</h3>

<img src="website2.jpg" alt="Website 2" height="50" width="10">

<p>A description of the website.</p>

</li>

</ul>

</section>

<section id="contact">

<h2>Contact Me</h2>

<form action="submit-form.php" method="post">

<label for="name">Name:</label>

<input type="text" id="name" name="name"><br>

<label for="email">Email:</label>

<input type="email" id="email" name="email"><br>

<label for="message">Message:</label>

<textarea id="message" name="message"></textarea><br>

<input type="submit" value="Send">

</form>

</section>

</body>

</html>

**CSS:**

body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

}

header {

background-color: #333;

color: #fff;

padding: 20px;

}

header h1 {

margin: 0;

}

header nav {

float: right;

}

header nav a {

color: #fff;

margin-left: 20px;

text-decoration: none;

}

section {

margin: 20px;

}

section h2 {

margin-top: 0;

}

section#work li {

margin-bottom: 20px;

}

section#work li img {

width: 100%;

}

section#work li p {

margin-top: 10px;

}

section#contact form label {

display: block;

margin-bottom: 10px;

}

section#contact form input[type="text"],

section#contact form input[type="email"],

section#contact form textarea {

width: 100%;

padding: 12px;

border: 1px solid #ccc;

box-sizing: border-box;

margin-bottom: 10px;

}

section#contact form input[type="submit"] {

background-color: #4CAF50;

color: white;

padding: 12px 20px;

border: none;

cursor: pointer;

}

section#contact form input[type="submit"]:hover {

background-color: #45a049;

}

**Output:**

