GURU NANAK DEV ENGG COLLEGE

Bachelor's of Information Technology

Web Technologies Laboratory
LPCIT-107

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INDEX

PRACTICAL NO.:1

- **Create a simple web page by writing HTML using a simple text editor, Notepad.**

Demonstrate the following components of the web page:

Page titles and Headings Paragraphs and Inline images.

CODE:

```
<!DOCTYPE html>

<html>

<head>

<title>GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA(PUNJAB)</title>

</head>

<body style="background-color:powderblue;">

<img src="https://www.gndec.ac.in/sites/default/logo.png" width="1500" height="200">

<h1 style="color:blue;">GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA(PUNJAB)</h1>

<p>Guru Nanak Dev Engineering College (GNDEC or GNE Ludhiana) is one of the oldest engineering institutions of the northern region situated at Gill Park, Ludhiana, Punjab, India. <br>The foundation stone of the college was laid on 8 April 1956 by Hon'ble Dr. Rajendra Prasad, the first President of India. The college has been named after 1st Sikh Guru Guru Nanak Dev Ji.</p>

<h2 style="text-align: center;">Academics</h2>

<p>The college was earlier affiliated with Panjab University, Chandigarh since beginning. But after establishment of Punjab Technical University, Jalandhar in 1997 as a single affiliating university for all technical colleges of Punjab, college became affiliated with Punjab Technical University, Jalandhar. <br> GNE is the first Engineering College of Punjab, which was conferred Autonomous Status by University Grants Commission in 2012. The college is one of the few technical institutions of Punjab selected for World Bank financial assistance under Technical Education Quality Improvement Programme .</p>


<h2><i><u><b>Courses offered</b></u></i></h2>

<p>Bachelor of Technology<br>

Civil engineering<br>

Mechanical engineering<br>
```

Computer Science & Engineering

Electrical engineering

Electronics & Communication Engineering

Information technology

Production engineering

Master of Technology

Computer Science and Engineering

Industrial engineering

Production engineering

Power engineering

Structural engineering

Geotechnical engineering

Electronics & Communication Engineering

Environmental engineering

B.Arch

Master of Business Administration

Master in Computer Applications

Ph.D. under QIP</p>

</body>

</html>

OUTPUT:

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA(PUNJAB)

Guru Nanak Dev Engineering College (GNDEC or GNE Ludhiana) is one of the oldest engineering institutions of the northern region situated at Gill Park, Ludhiana, Punjab, India.
The foundation stone of the college was laid on 8 April 1956 by Hon'ble Dr. Rajendra Prasad, the first President of India. The college has been named after 1st Sikh Guru Guru Nanak Dev Ji.

Academics

The college was earlier affiliated with Panjab University, Chandigarh since beginning. But after establishment of Punjab Technical University, Jalandhar in 1997 as a single affiliating university for all technical colleges of Punjab, college became affiliated with Punjab Technical University, Jalandhar.
GNE is the first Engineering College of Punjab, which was conferred Autonomous Status by University Grants Commission in 2012. The college is one of the few technical institutions of Punjab selected for World Bank financial assistance under Technical Education Quality Improvement Programme .

Courses offered

Bachelor of Technology
Civil engineering
Mechanical engineering
Computer Science & Engineering
Electrical engineering
Electronics & Communication Engineering
Information technology
Production engineering
Master of Technology
Computer Science and Engineering
Industrial engineering
Production engineering
Power engineering
Structural engineering
Geotechnical engineering
Electronics & Communication Engineering
Environmental engineering
B.Arch
Master of Business Administration
Master in Computer Applications
Ph.D. under QIP

PRACTICAL NO.:2

Demonstrate the use of Links, Lists and Tables in HTML. You should beable to link separate pages and create named links within a document,using them to build a “table of contents”.

CODE_1:

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>
<h1>Students Detail.</h1>
<p><a href="file:///C:/Users/HP/Documents/WT_pr2.html">Visit link</a></p>
</body>
</html>
```

OUTPUT_1:

CODE_2:

```
<!DOCTYPE html>
<html>
<style> table,
th, td {
  border:2px solid black;
  }
th {
  background-color: powderblue;
}
td {
  background-color: gray;
  color:white;
}
</style>
<body>
<h4 style="color:green"><i><u><b>Create a table of student details which includestudent name,crn,branch and email id:</b><u></i></h4>
<h2 style="color:green">Table content:</h2>
<ol style="color:blue">
<li>Student name</li>
<li>CRN</li>
<li>Branch</li>
<li>Email_id</li>
</ol>
<h2 style="color:green">Student Details:</h2>

<table style="width:100%">
  <tr>
    <th>STUDENT NAME</th>
    <th>CRN</th>
    <th>BRANCH</th>
    <th>Email_id</th>
  </tr>
  <tr>
    <td>Diksha</td>
    <td>2021128</td>
    <td>IT</td>
     <td>diksha2021128@gndec.ac.in</td>
  </tr>
  <tr>
    <td>Isha Arora</td>
    <td>2021051</td>
    <td>IT</td>
```

```
    <td>isha2021051@gndec.ac.in</td>
  </tr>
  <tr>
    <td>Komal Sharma</td>
    <td>2021061</td>
    <td>CSE</td>
     <td>Komal2021061@gndec.ac.in</td>
     <tr>
    <td>Chhaya</td>
    <td>2021190</td>
    <td>Minning</td>
     <td>chhayaiitism@me.ac.in</td>
  </tr>
</table>
<p><a href ="file:///C:/Users/HP/Documents/wt1.html" >visit this link .</a></p>
</body>
</html>
```

OUTPUT_2:

Create a table of student details which include student name,crn,branch and email id:

Table content:

1. Student name
2. CRN
3. Branch
4. Email_id

Student Details:

STUDENT NAME	CRN	BRANCH	Email_id
Diksha	2021128	IT	diksha2021128@gndec.ac.in
Isha Arora	2021051	IT	isha2021051@gndec.ac.in
Komal Sharma	2021061	CSE	Komal2021061@gndec.ac.in
Chhaya	2021190	Minning	chhayaiitism@me.ac.in

visit this link .

PRACTICAL NO.:3

Create simple Forms in HTML and demonstrate the use of various form elements like input box, textarea, submit and radio buttons etc.

Code:

```
<!DOCTYPE html>
<html>
<body>
<h1><b><u> REGISTRATION FORM </u></b></h1>
<form>
<div>
<h2>Fill your details:</h2>
        First name: <input type="text" value="">
        last name :<input type="text" value=""><br><br>
        E-mail id :<input type="email" value="">
        password  :<input type="password" value=""><br><br>
        URN       :<input type="number" value="">
        CRN       :<input type="number" value=""><br><br>
        Department: <input type="text" value="">
        Batch     :<input type="number" value=""><br><br>
        mobile number:<input type="number" value=""><br><br>
        gender :<input type="radio" name="gender" value="male">male
<input type="radio" name="gender" value="Female">Female
<input type="radio" name="gender" value="Other">Other
<h2>Select Society:</h2>
<input type="checkbox" name="Technical" value="Technical">Technical<br>
<input type="checkbox" name="Non-Technical" value="Non-Technical">Non-Technical<br><br>
<button type="submit">Submit</button>
</body>
</html>
```

OUTPUT:

REGISTRATION FORM

Fill your details:

First name: last name :

E-mail id : password :

URN : CRN :

Department: Batch :

mobile number:

gender : male Female Other

Select Society:

Technical
Non-Technical

Submit

PRACTICAL NO.:4

Demonstrate the use of cascading style sheets (CSS) (inline, internal and external) to specify various aspects of style, such as colours and text fonts and sizes, in HTML document.

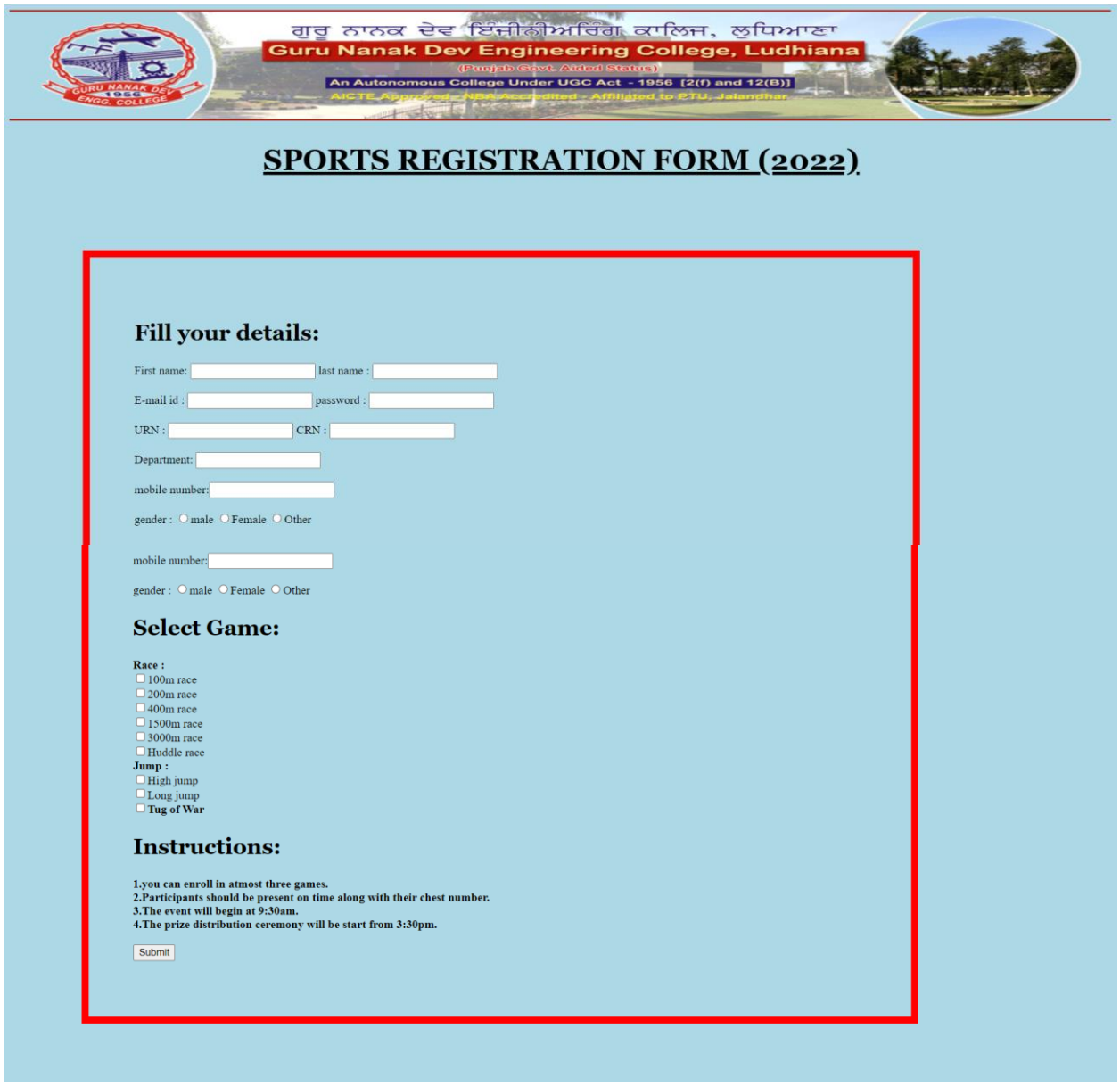
CODE:

```
<!DOCTYPE html>
<html>
<head>
<style>
h1 {
  font-family: Georgia, serif;
  font-size: 40px;
  color: black;
  text-align:center;
}
h2 {
  font-family: Georgia, serif;
  font-size: 30px;
  color: black;

}
div {
      background-color: lightblue;
      width: 1000px;
      border: 10px solid red;
      padding: 60px;
      margin: 100px;
```

```
   }
body {
 background-color: lightblue;
}

 img {
 text-align:center;
 opacity: 5.0;
 }
</style>
</head>
<body>
<img src="https://gndec.ac.in/book_search_cse/images/sm_logo.png"
style="width:1500px;height:150px;">

<h1><b><u>SPORTS REGISTRATION FORM (2022)</u></b></h1>


   <form>
   <div>
   <h2>Fill your details:</h2>
      First name: <input type="text" value="">
      last name :  <input type="text" value=""><br><br>
      E-mail id : <input type="email" value="">
      password  :  <input type="password" value=""><br><br>
      URN       :  <input type="number" value="">
      CRN       :  <input type="number" value=""><br><br>
      Department: <input type="text" value=""><br><br>
      mobile number:<input type="number" value=""><br><br>
```

```
    gender : <input type="radio" name="gender" value="male">male
    <input type="radio" name="gender" value="Female">Female
    <input type="radio" name="gender" value="Other">Other

  <h2>Select Game:</h2>
  <b>Race :</b><br>
  <input type="checkbox" name="Race" value="100m race">100m race<br>
  <input type="checkbox" name="Race" value="200m race">200m race<br>
  <input type="checkbox" name="Race" value="400m race">400m race<br>
  <input type="checkbox" name="Race" value="1500m race">1500m race<br>
   <input type="checkbox" name="Race" value="3000m race">3000m race<br>
   <input type="checkbox" name="Race" value="Huddle race">Huddle race<br>

  <b>Jump :</b><br>
  <input type="checkbox" name="Jump" value="high jump">High jump<br>
  <input type="checkbox" name="Jump" value="long jump">Long jump<br>
  <b> <input type="checkbox" name="Tug of War" value="Tug of War">Tug of War<br><b>
  <h2>Instructions:</h2>
  <p>1.you can enroll in atmost three games.<br>
  2.Participants should be present on time along with their chest number.<br>
  3.The event will begin at 9:30am. <br>
  4.The prize distribution ceremony will be start from 3:30pm.<br><br>
   <button type="submit">Submit</button>

</body>
</html>
```

OUTPUT:


ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਇੰਜੀਨੀਅਰਿੰਗ ਕਾਲਿਜ, ਲੁਧਿਆਣਾ
Guru Nanak Dev Engineering College, Ludhiana
(Punjab Govt. Aided Status)
An Autonomous College Under UGC Act - 1956 (2(f) and 12(B))
AICTE Approved - NBA Accredited - Affiliated to PTU, Jalandhar
SPORTS REGISTRATION FORM (2022)
Fill your details:
First name: last name :
E-mail id : password :
URN : CRN :
Department:
mobile number:
gender : male Female Other
mobile number:
gender : male Female Other
Select Game:
Race :
100m race
200m race
400m race
1500m race
3000m race
Huddle race
Jump :
High jump
Long jump
Tug of War
Instructions:
1.you can enroll in atmost three games.
2.Participants should be present on time along with their chest number.
3.The event will begin at 9:30am.
4.The prize distribution ceremony will be start from 3:30pm.
Submit

PRACTICAL NO.:5

Create an html file to implement the concept of document object model, different operations and event handling using JavaScript.

CODE:

```
<!DOCTYPE html>

<html>

<head>

<title>Student Details</title>

</head>

<body>

<h1>With the help of event handler and function in javascript</h1>

<h1 id="id1" style="color:brown;">JavaScript can hide HTML elements.</h1>

<button type="button" onclick="document.getElementById('id1').style.display='none'"> Click Me!</button>

<p>With the help of event handler and function in javascript</p>

<p id="demo">Click button to execute the displayDate() function.</p><button id="myBtn">Try it</button>

<h1>Student Details</h1>

<form>

<label for="">Name :</label><input type="text" id="fname" onfocus="focusstudent(this)" ><br><br>

<label for="">Class :</label><input type="text" id="class" onfocus="focusstudent(this)" ><br><br>

<label for="">Roll number :</label><input type="text" id="roll" onfocus="focusstudent(this)" ><br><br>

</form>

<script>

document.getElementById("myBtn").onclick = displayDate;

 function displayDate() { document.getElementById("demo").innerHTML = Date(); }

function focusstudent(element){
```

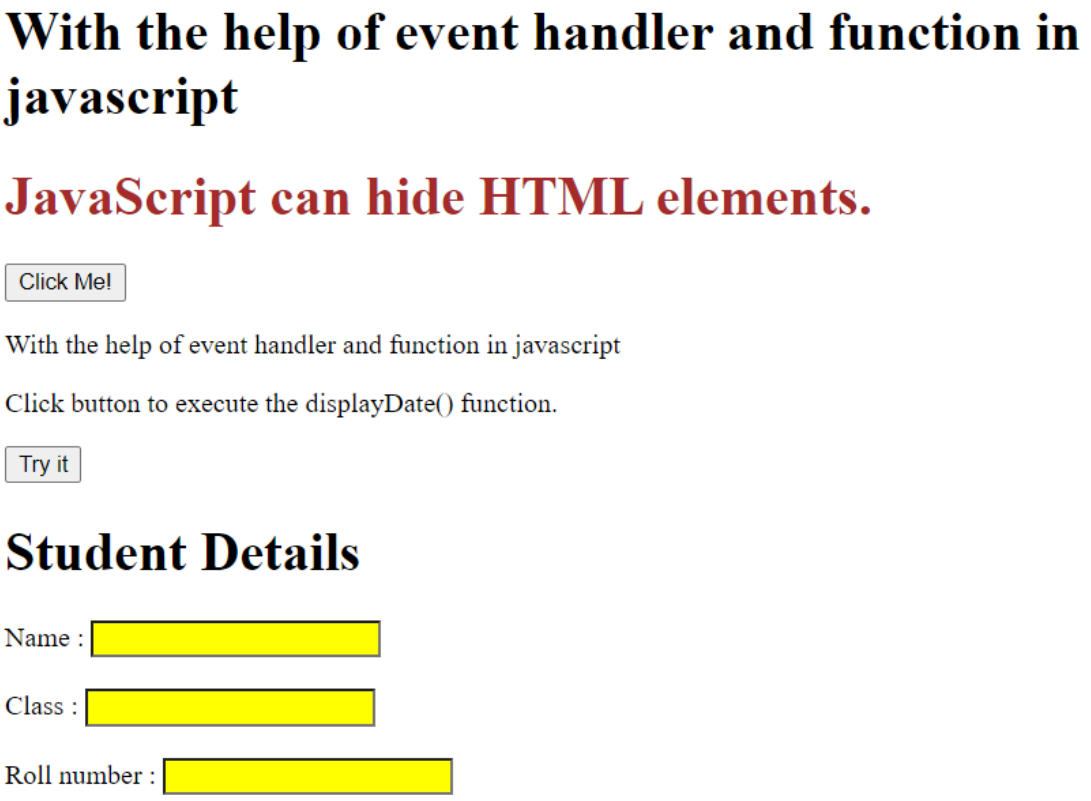
element.style.background="yellow";}

</script>

</body>

</html>

OUTPUT:



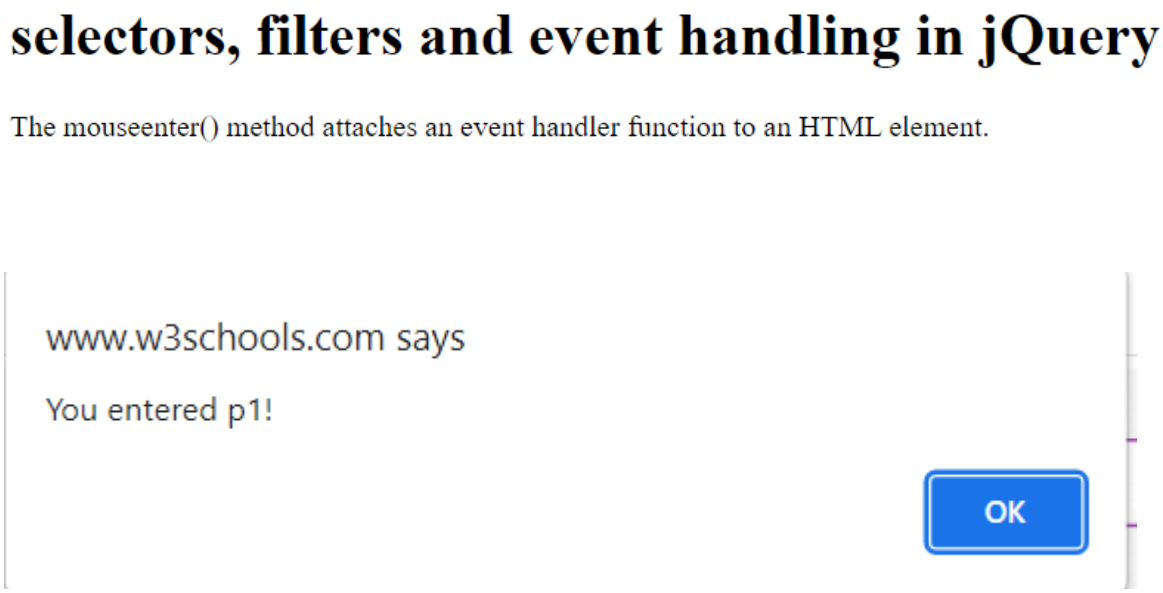
PRACTICAL NO.:6

Demonstrate the use of various selectors, filters and event handling in jQuery.

CODE:

```
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("#p1").mouseenter(function(){
alert("You entered p1!");
  });
});
</script>
</head>
<body>
<h1> selectors, filters and event handling in jQuery</h1>
<p id="p1">The mouseenter() method attaches an event handler function to an HTML element.</p>

</body>
</html>
```

OUTPUT:


selectors, filters and event handling in jQuery
The mouseenter() method attaches an event handler function to an HTML element.
www.w3schools.com says
You entered p1!
OK

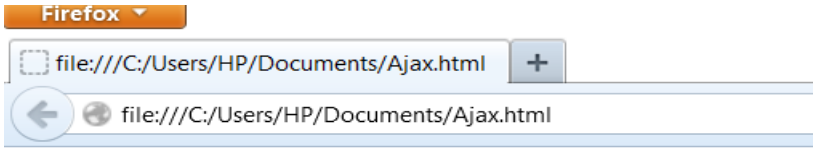
PRACTICAL NO.:7

Demonstrate the use of AJAX to retrieve and manipulate the web page content.

CODE:

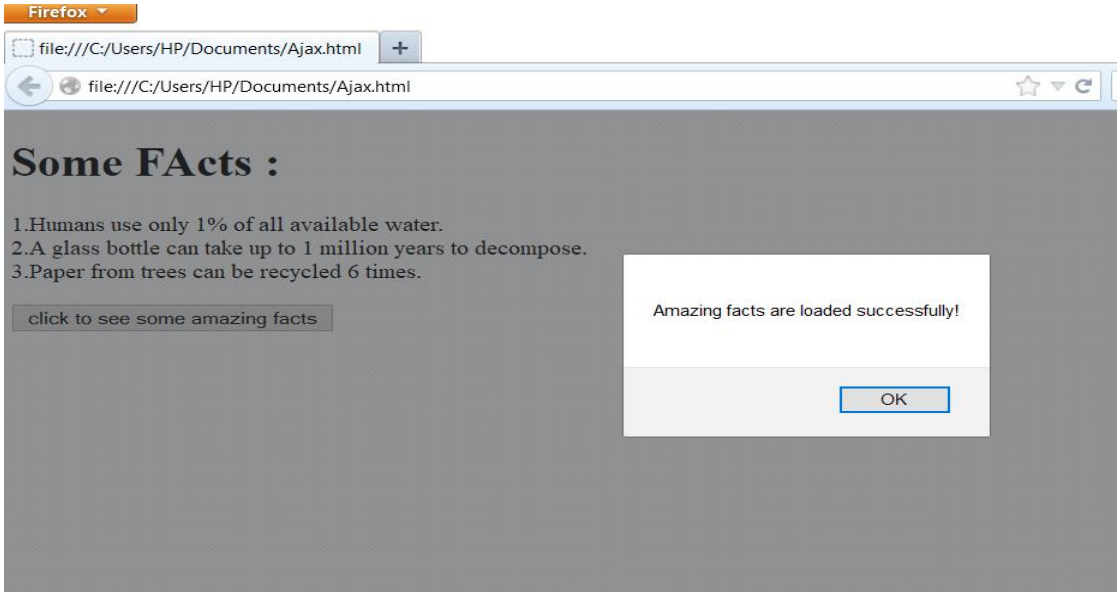
```
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("#div1").load("D.txt", function(responseTxt, statusTxt, xhr){
if(statusTxt == "success")
alert("Amazing facts are loaded successfully!");
if(statusTxt == "error")
alert("Error: " + xhr.status + ": " + xhr.statusText);  });
  });
});
</script>
</head>
<body>
<div id="div1"><h2>Environmental Fun Facts!</h2></div>
<button>click to see some amazing facts</button>
</body>
</html>
```

OUTPUT:



Environmental Fun Facts!

click to see some amazing facts



Some FActs :

1.Humans use only 1% of all available water.
2.A glass bottle can take up to 1 million years to decompose.
3.Paper from trees can be recycled 6 times.

click to see some amazing facts

PRACTICAL NO.:8

Demonstrate the use of GET and POST methods of AJAX.

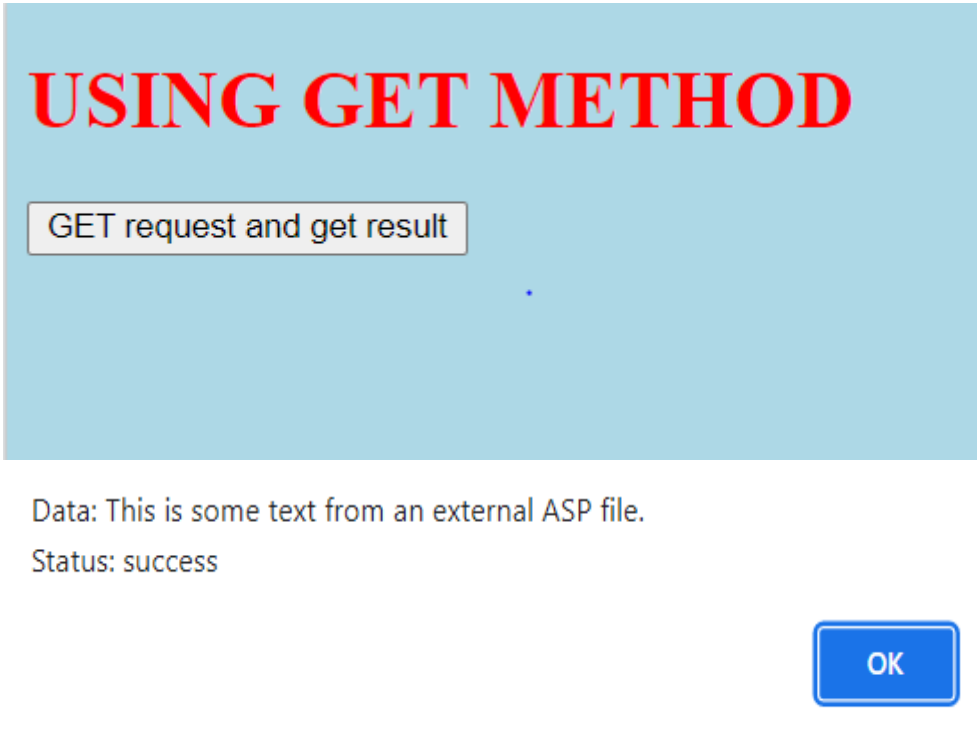
CODE:

GET METHOD:

```
<!DOCTYPE html>
<html>
<head>
<style>
h1{
color:red;
}
body{
background-color:lightblue;
}
alert{
background-color:lightblue;
}
</style>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $.get("demo_test.asp", function(data, status){
      alert("Data: " + data + "\nStatus: " + status);
    });
  });
});
</script>
```

```
</head>
<body>
<h1>USING GET METHOD</h1>
<button >GET request and get result</button>


</body>
</html>
```

OUTOUT:



CODE:

POST METHOD:

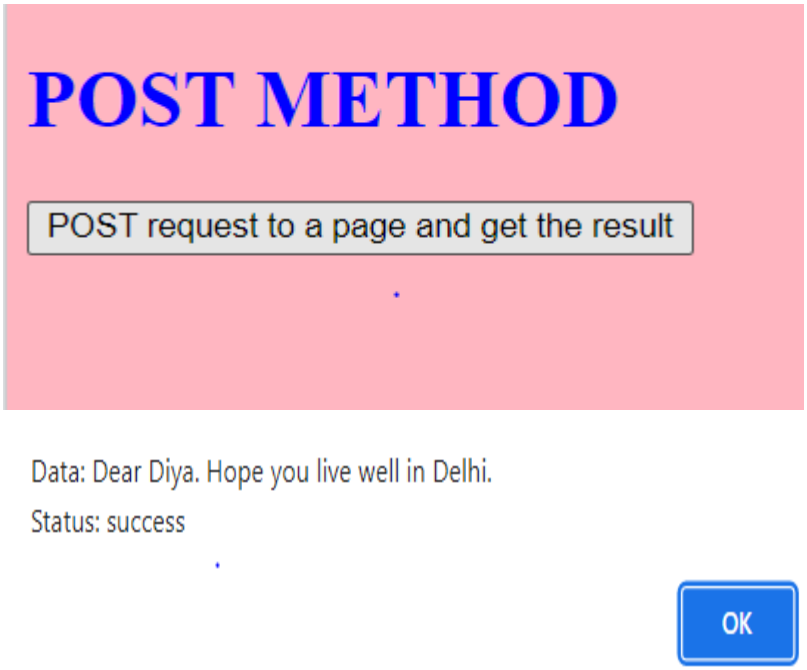
```
<!DOCTYPE html>
<html>
<head>
<style>
h1{
color:blue;}
body{
background-color:lightpink;}
</style>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $.post("demo_test_post.asp",
    {
      name: "Diya",
      city: "Delhi"
    },
    function(data,status){
      alert("Data: " + data + "\nStatus: " + status);
    });
  });
});
</script>
</head>
<body>
<h1>POST METHOD</h1>
```

<button>POST request to a page and get the result</button>

</body>

</html>

OUTPUT:



PRACTICAL NO.:9

Creation of Web pages using HTML5 and CSS3.

CODE:

```
<!DOCTYPE html>
<html lang="en">
  <head>
  <style>
  h1{
  color:green;
  text-align :center;
   text-shadow: 2px 2px blue;
  }
input[type=submit] {
  width: 100%;
  background-color:green;
  color: white;
  padding: 14px 20px;
  margin: 8px 0;
  border: none;
  border-radius: 4px;
  cursor: pointer;
  }
div {
  height: 200px;
  background-color: powderblue;
  background-image: linear-gradient(powderblue, white);
  border-radius: 50px;
   width: 100%;
```

```
  background-color: #f2f2f2;
  padding: 30px;
  box-shadow: 10px 10px 5px green;
}


</style>
<script>
var canvas = document.getElementById("myCanvas");
var ctx = canvas.getContext("2d");
ctx.font = "30px Arial";
ctx.strokeText("photo", 10, 50);
</script>
  </head>
  <body>
 <h1>REGISTRATION FORM </h1>
  <div id="d1">
    <form>
      <label for="fname">First Name:</label>
      <input type="text" id="name" name="name">
       <label for="lname">Last Name:</label>
      <input type="text" id="lname" name="lname">
      <canvas id="myCanvas" width="100" height="100" style="border:2px solid
black;"></canvas><br><br>
      <label for="father's name">Father's name:</label>
      <input type="text" id="name" name="name">
      <label for="mother's name">Mother's name:</label>
      <input type="text" id="name" name="name"><br><br>
      <label for="user-email">E-mail:</label>
      <input type="email" id="user-email" name="user-email">
```

```
    <label for="cnumber">Contact Number:</label>
    <input type="number" id="cnumber" name="cnumber"><br><br>
    <label for="gender">Gender:</label>
    Male <input type="radio" id="gender" name="gender">
     Female <input type="radio" id="gender" name="gender"><br><br>
    <label for="content">Interests:</label><br>
    <textarea rows="10" cols="50" id="content"  name="content" ></textarea><br><br>
    <input type="submit" value="register">
  </form>
  </div>
 </body>
</html>
```

OUTPUT:

PRACTICAL NO.:10

Demonstrate the use of Bootstrap Framework.

CODE:

```
<!DOCTYPE html>

<html>

<head>

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

<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<header class="header">

<nav class="navbar navbar-style">

<div class="container">

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#micon">

<span class="icon-bar"></span>

<span class="icon-bar"></span>

</button>

<a href=""><img class="micy" src="https://encrypted-
tbn0.gstatic.com/images?q=tbn:ANd9GcRvNqgtKxQluQTz14tp1uxGmIDxk98S2wGA3g&usqp
=CAU"></a>

</div>

<div class="collapse navbar-collapse" id="micon">

<ul class="nav navbar-nav navbar-right">

<li><a href="">Home</a></li>

<li><a href="">Features</a></li>
```

```
<li><a href="">Team</a></li>
<li><a href="">Gallery</a></li>
<li><a href="">Contact us</a></li>
</ul>
</div>
</div>
</nav>
<div class="container">
<div class="row">
<div class="col-sm-6"></div>
<h1>Welcome to my website.</h1>
<p class="big-text">Create responsive website</p>
<p>learn how to make beautiful responsive website using HTML CSS and Bootstrap</p>
<div class="col-sm-6"></div>
<img src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcShEmn18wC3rnAQoJL_QuhQLQzfbBhyPqJlMw&usqp=CAU" class="img-responsive">
</div>
</div>
</header>
</body>
</html>
```

OUTPUT:

HOME FEATURES TEAM GALLERY CONTACT US

Welcome to my website.

Create responsive website

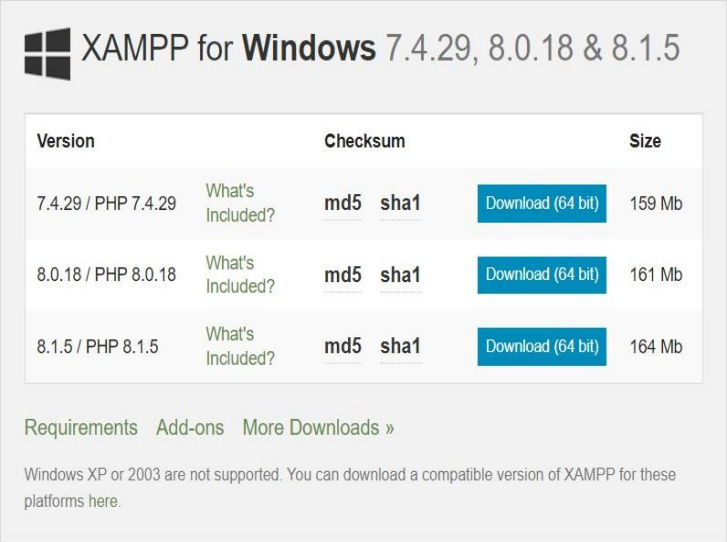
learn how to make beautiful responsive website using HTML CSS and Bootstrap

PRACTICAL NO.:11

Setup of development server like XAMP/ WAMP in Windows and Linux.

STEP 1: Open Apache Friends Website.

STEP 2: Click the download button for the windows version of XAMPP and save file on your pc.



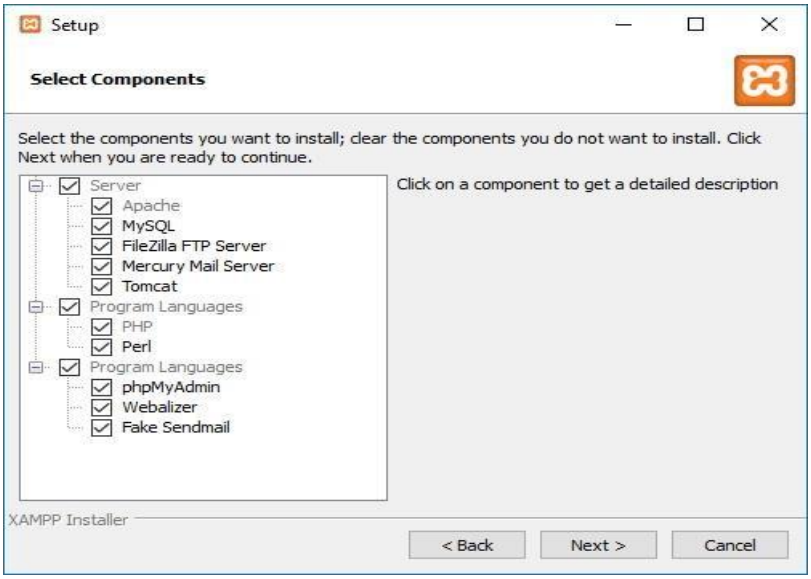
STEP 3: Double click the downloaded file to launch installer.

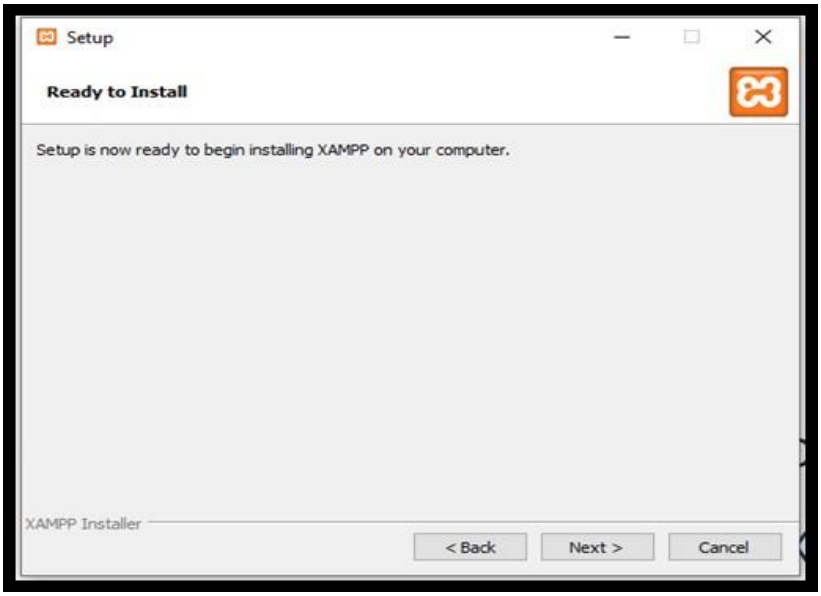
STEP 4: Click ok button.

STEP 5: Click next button.

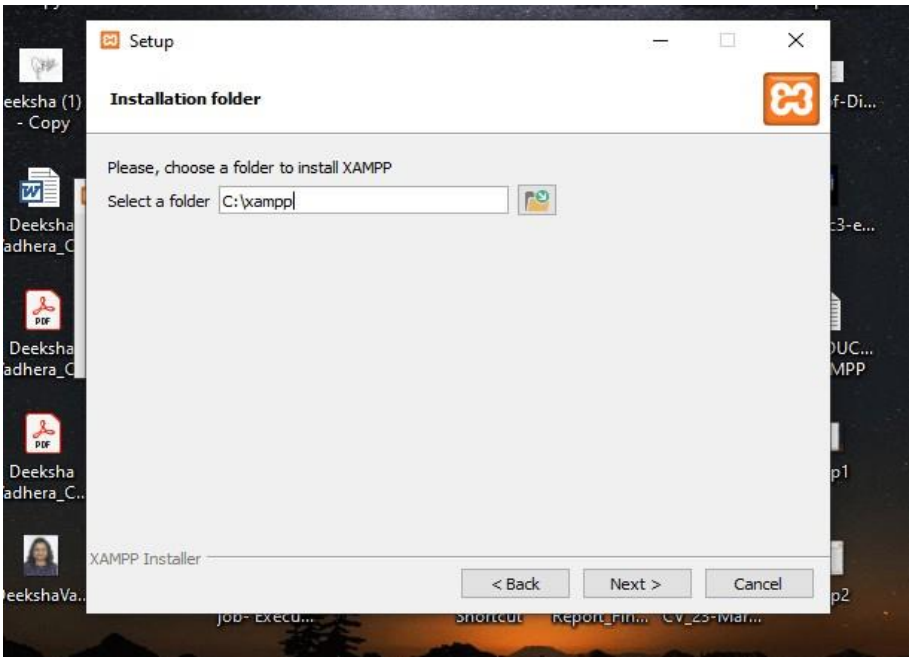
STEP 6: XAMPP offers various components, we can install such MySQL, PHP, phpMyAdmin..etc.

STEP 7: Click next button.



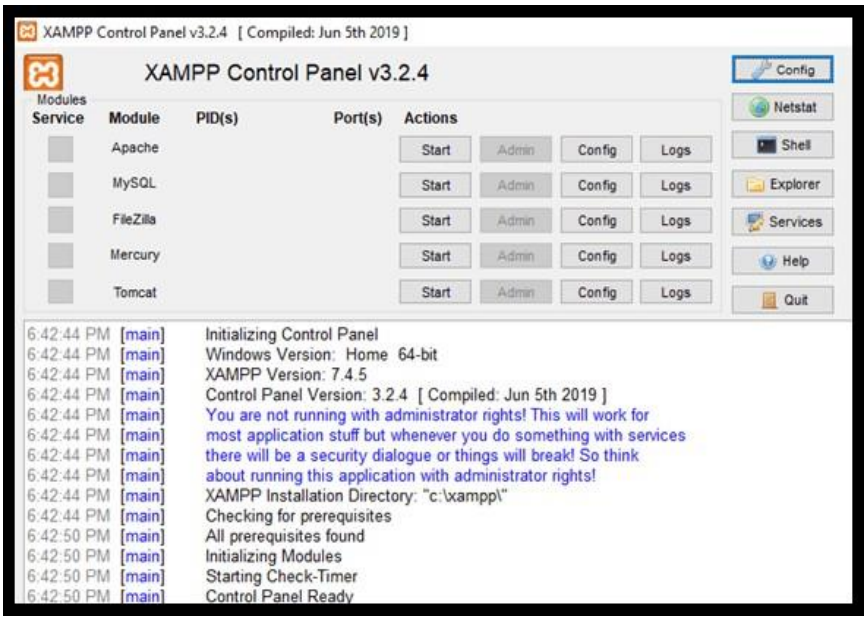


STEP 8: Use the default installed location.



STEP 9: Click next.

STEP 10: Select language for XAMPP control panel.

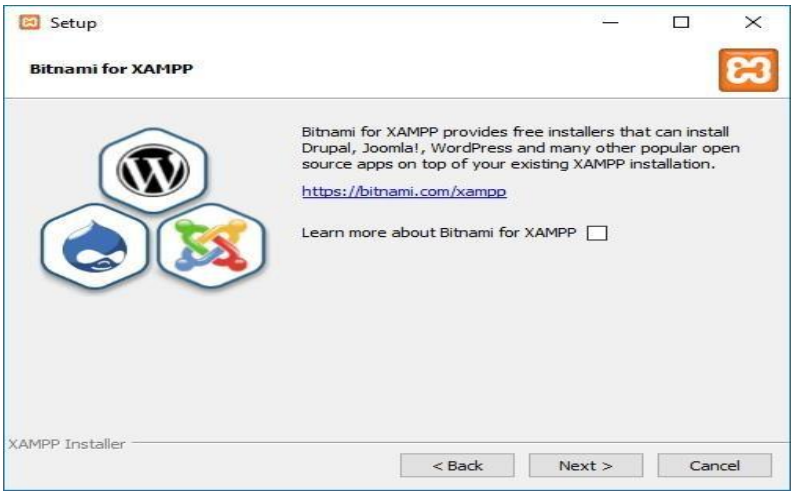


STEP 11:Click next button.

STEP 12: clear the Learn more about Bitnami for XAMPP option.

STEP 13: Click next.

STEP 14: Click again Next button.



STEP 15: Allow access.
STEP 16: Click on Finish button.

PRACTICAL NO.:12

Creating a web page using PHP.

CODE:

```
<!DOCTYPE html>
<html>
<head>
<style>
h1{
color: blue;
}
h2{
color: blue;
}
body{
background-image: url("https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTMNo7tCEfuL6jvzRVUgmf1AzvKpjf1xXdQcA&usqp=CAU");
opacity=0.2;
background-repeat: repeat;
background-size: cover;
background-color: powderblue;
}
img{
border: 10px;
padding: 20px;
}
</style>
</head>
<body>
```

```
<img src="https://www.gndec.ac.in/sites/default/logo.png" height="100" Width="1000">

<h1><u>My Intro:</u></h1>

<img src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQqgxh0NTbXqwpOtVTD1-GrNs0VHEJmCe4MQw&usqp=CAU " height="100" width="100"><br>

<b>

<?php

$name="Aaradhya";

echo "My name is " . $name . "<br>";

$interests = array("Book reading", "Dancing", "Sports");

echo "I like " . $interests[0] . "<br>I Like  " . $interests[1] . " <br>I am also good in  " . $interests[2] . ".<br>";

function SubjectName($Sname) {

  echo "Subject : $Sname<br>";

}

echo "<br>";

echo "<u><h2>All the subjects name that i am persuing in 2nd year of Btech course::</h2></u><br>";

SubjectName("Operating system");

SubjectName("Web technology");

SubjectName("Python");

SubjectName("Probability and Statistics");

SubjectName("Database Management System");

?></b><br>

<h2><u>Other Details:</u></h2>

Father's Name: <input type="text" name="name" value="Arun Singh"><br><br>

Mother's Name: <input type="text" name="name" value="Amrita Singh"><br><br>

E-mail: <input type="text" name="email" value="aradhya123@gmail.com"><br><br>

DOB: <input type="text" name="dob" value="12-04-2002"><br><br>

</body>

</html>
```

My Intro:

My name is Aaradhya
I like Book reading
I Like Dancing
I am also good in Sports.

All the subjects name that i am persuing in 2nd year of Btech course::

Subject : Operating system
Subject : Web technology
Subject : Python
Subject : Probability and Statistics
Subject : Database Management System

Other Details:

Father's Name: Arun Singh

Mother's Name: Amrita Singh

E-mail: aradhya123@gmail.com

DOB: 12-04-2002

PRACTICAL NO.:13

Handling database queries with PHP.

1. Connect to MySQL and creating a Database:

Code:-

```php
<?php
$servername = "localhost";
$username = "username";
$password = "password";

// Create connection
$conn = new mysqli($servername, $username, $password);
// Check connection
if ($conn->connect_error) {
  die("Connection failed: " . $conn->connect_error);
}

// Create database
$sql = "CREATE DATABASE myDB";
if ($conn->query($sql) === TRUE) {
  echo "Database created successfully";
} else {
  echo "Error creating database: " . $conn->error;
}

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

2. Create Table:

```php
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "myDB";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
  die("Connection failed: " . $conn->connect_error);
}

// sql to create table
$sql = "CREATE TABLE MyGuests (
id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
```

```
firstname VARCHAR(30) NOT NULL,
lastname VARCHAR(30) NOT NULL,
email VARCHAR(50),
reg_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP ON UPDATE
CURRENT_TIMESTAMP
)";

if ($conn->query($sql) === TRUE) {
  echo "Table MyGuests created successfully";
} else {
  echo "Error creating table: " . $conn->error;
}

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

3. Insert Data:

```
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "myDB";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
  die("Connection failed: " . $conn->connect_error);
}

$sql = "INSERT INTO MyGuests (firstname, lastname, email)
VALUES ('John', 'Doe', 'john@example.com')";

if ($conn->query($sql) === TRUE) {
  echo "New record created successfully";
} else {
  echo "Error: " . $sql . "<br>" . $conn->error;
}

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

4. Select Data:

```php
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "myDB";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
  die("Connection failed: " . $conn->connect_error);
}

$sql = "SELECT id, firstname, lastname FROM MyGuests";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
  // output data of each row
  while($row = $result->fetch_assoc()) {
    echo "id: " . $row["id"]. " - Name: " . $row["firstname"]. " " .
$row["lastname"]. "<br>";
  }
} else {
  echo "0 results";
}
$conn->close();
?>
```

5. Delete Data:

```php
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "myDB";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
  die("Connection failed: " . $conn->connect_error);
}

// sql to delete a record
$sql = "DELETE FROM MyGuests WHERE id=3";
```

```php
if ($conn->query($sql) === TRUE) {
  echo "Record deleted successfully";
} else {
  echo "Error deleting record: " . $conn->error;
}

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

6. Update Data:

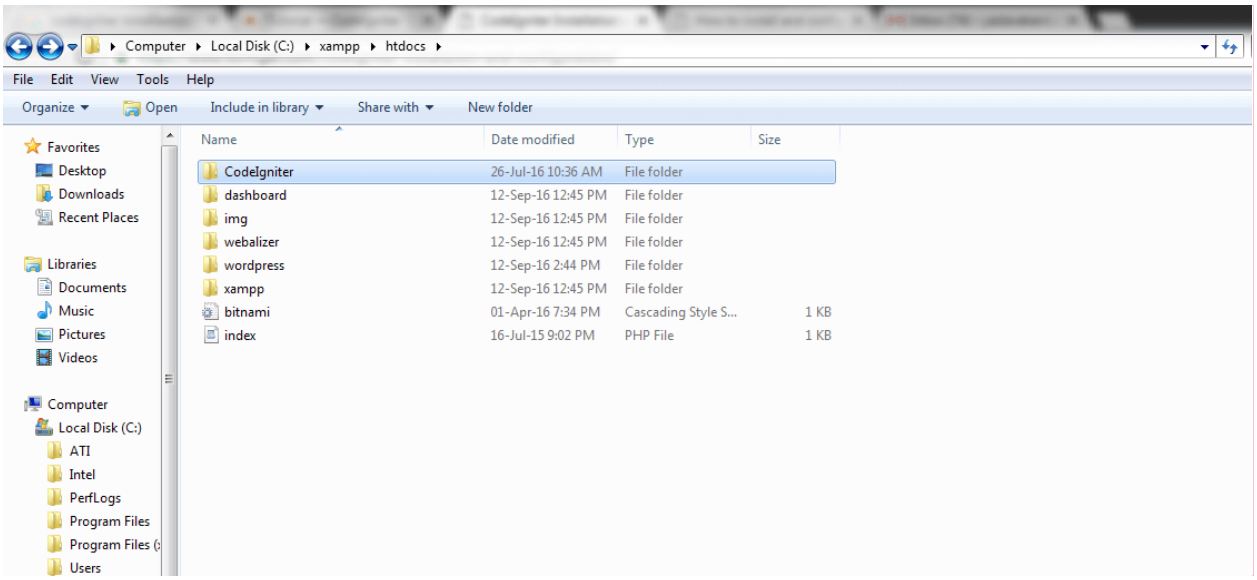
```php
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "myDB";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
  die("Connection failed: " . $conn->connect_error);
}

$sql = "UPDATE MyGuests SET lastname='Doe' WHERE id=2";

if ($conn->query($sql) === TRUE) {
  echo "Record updated successfully";
} else {
  echo "Error updating record: " . $conn->error;
}

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

PRACTICAL NO.:14

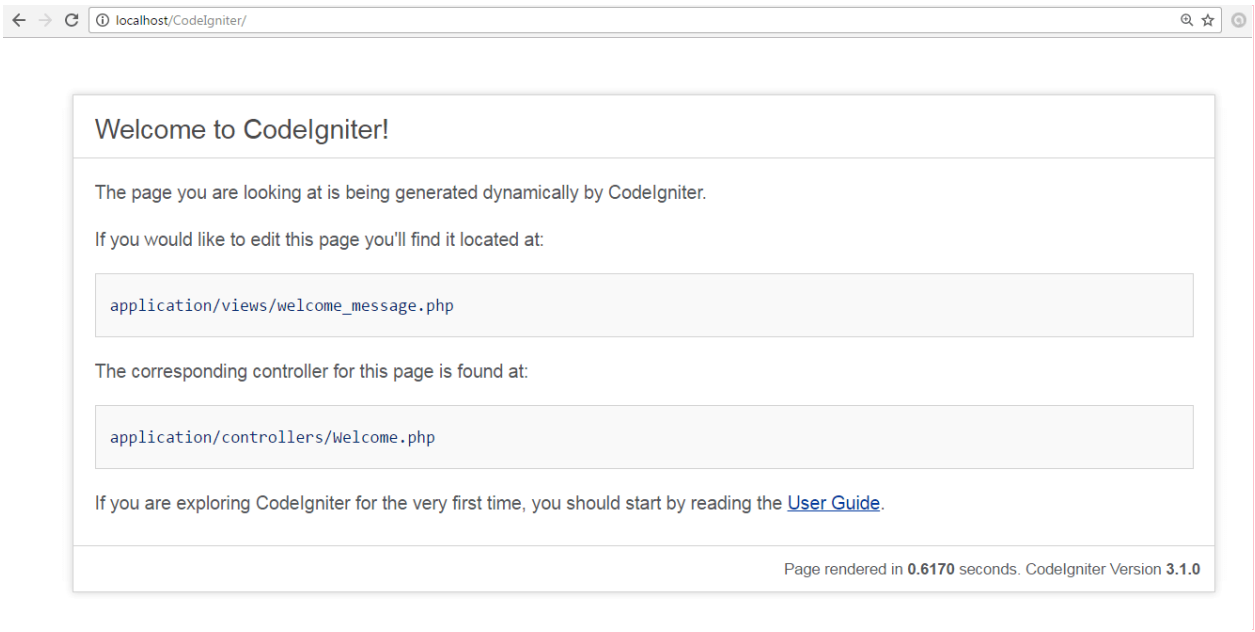
Setup of CodeIgniter framework and to study its different components.

Step1: Download current version of CodeIgniter from its official website https://www.codeigniter.com

Step 2: Unzip CodeIgniter package.
Downloaded CodeIgniter will be in zip format. Copy it and place it in your htdocs folder. Unzip and rename it. We are naming it as CodeIgniter.

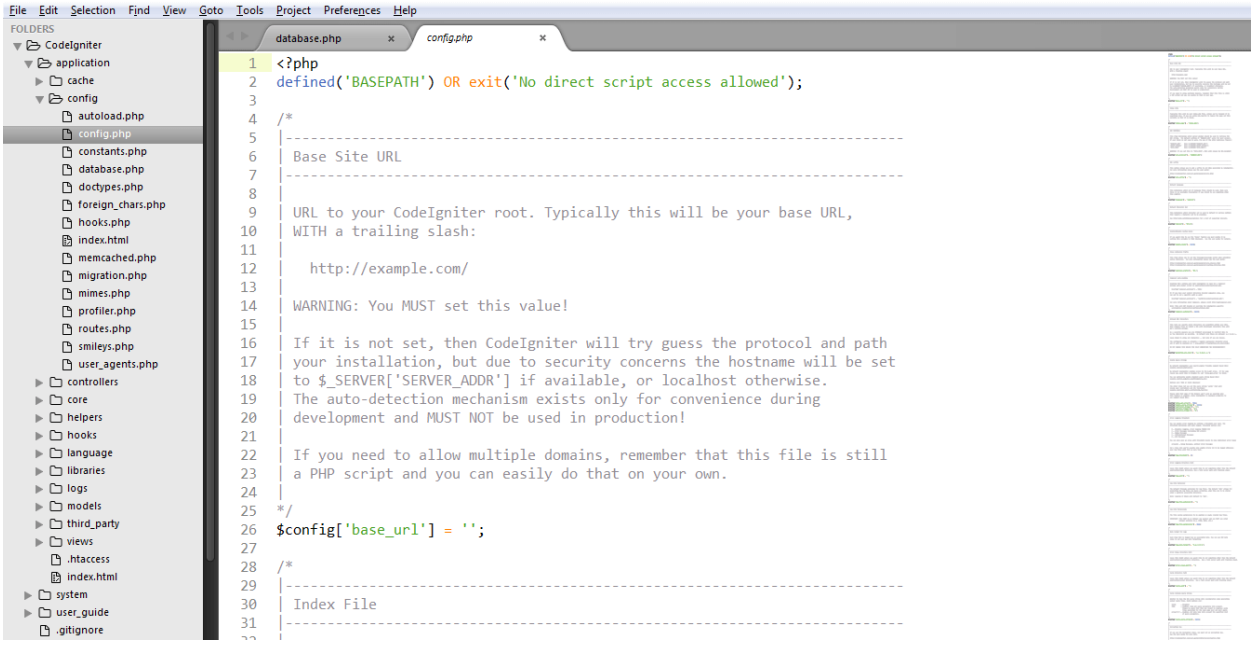


Step 3: CodeIgniter user guide

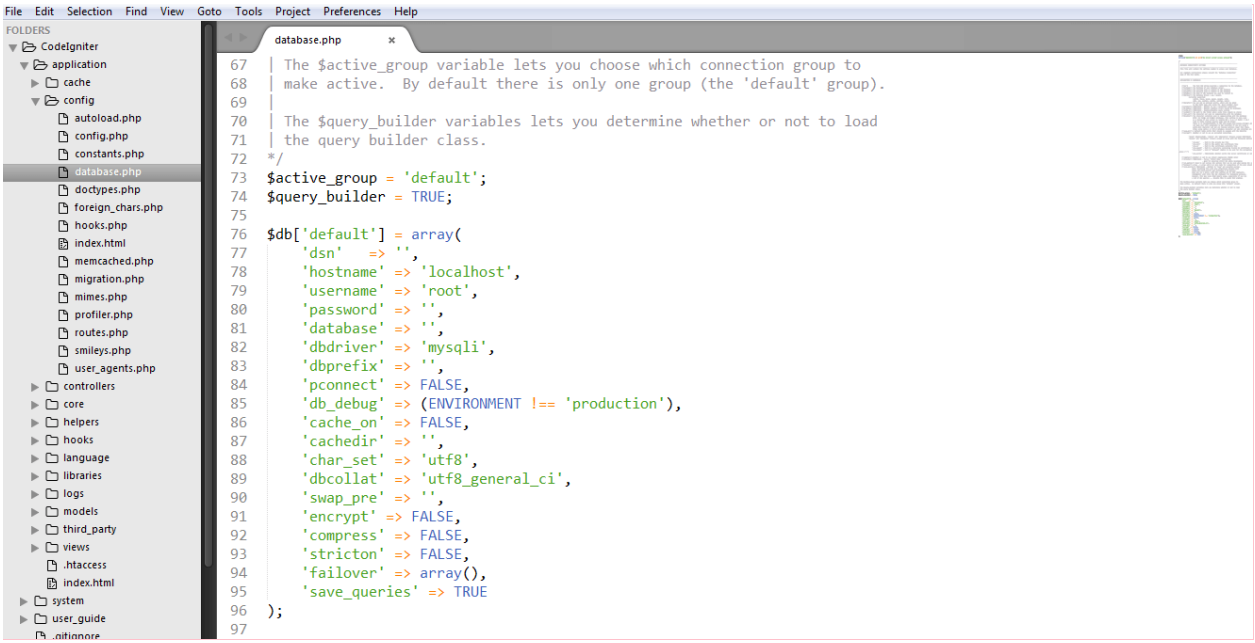


On browser type localhost/CodeIgniter/ (after localhost type name of your unzipped folder). If the above snapshot page appears then it means your file is successfully installed.

Step 4: Set the base URL in the application/config/config.php file with any text editor.



Step 5: You need to establish the connectivity to your database. Go to the path application/config/database.php file.



Look at the above snapshot, fill in the details about your database like hostname, username, password and database name which completes the setup.

- **Components of codeigniter framework:**

There are three central components: the data model (Model), the presentation (View), and the controller (Controller).

- The **data model (Model)** represents the data structure of a web application developed on the basis of CodeIgniter. For this purpose, model classes are defined in the source code. These include special functions with which information from a database can be accessed, stored, or updated.

- The **presentation (View)** is the part of the application that is presented to users. As a rule, this is an HTML document in which content is dynamically integrated via PHP. A view is basically a kind of template. CodeIgniter provides the opportunity to define webpage elements like the header and footer or RSS-sites in the view. Generally, web applications use multiple views to refer to content using the same data model. This allows different program features to be presented in different views.

- The **controller (Controller)** serves as a mediating entity between the model, view, and any other resource that is required to process an HTTP request or dynamically generate a website. This component takes inbound requests, validates the input, selects the desired view, and passes on content that the data model has loaded from a database.