Bachelor of Technology
in
Computer Science and Engineering

Lab Manual
For
18CS5CM02L
WEB PROGRAMMING LAB

Faculty of Engineering & Technology
Global Campus
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CONTENTS

Faculty in-charge(s) **Head of the Department**

Institute Vision and Mission

Vision:

To be a leading technical institution that offers a transformative education to create leaders and innovators with ethical values to contribute for the sustainable development and economic growth of our nation.

Mission:

M1: To impart high standard of engineering education through innovative teaching and research to meet the changing needs of the modern society.

M2: To provide outcome-based education that transforms the students to understand and solve the societal, industrial problems through engineering and technology.

M3: To collaborate with other leading technical institutions and organization to develop globally competitive technocrats and entrepreneurs.

Department Vision and Mission

Vision:

To emerge as a model center for education and research in the area of Computer Science and Engineering through Knowledge acquisition, dissemination and generation to meet societal demands.

Mission:

M1: To impart the quality education in cutting edge technologies, teaching & learning ambience in Computer Science and Engineering.

M2: To establish a center of excellence in collaboration with industries, research laboratories and other agencies to meet the changing needs of society.

M3: To provide an environment conducive to develop innovation, team-spirit and Entrepreneurship.

M4: To practice and promote high standards of professional ethics and transparency.

Program Educational Objectives (PEOs)

Graduates from Cloud Technology and Mobile Applications program are expected to achieve the following Program Educational Objectives within few years of education:

PEO1: Expertise in creating innovative solutions for web and mobile based applications across different platforms and acquire leadership roles.

PEO2: Apply the architecture and lifecycle of cloud in deploying solution to handle day-to-day IT requirements.

PEO3: Pursue higher education and upgrade their knowledge and skills through project/research-based learning process.

Program Specific Outcomes (PSO)

During the graduation students should be able to:

PSO1: Apply the software development life cycle process in building web, mobile and cross-platform based applications using analytical skills, creativity, communication, problem solving skills and programming languages.

PSO2: Provide cloud-based solution for real time problems using suitable service providers such as Amazon Web Service, Microsoft Azure, Google Cloud and OpenStack.

Program Outcomes

Engineering Graduate's attributes

Sl.No.	Program Outcomes
1.	**Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2.	**Problem analysis**: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3.	**Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and

	environmental considerations.
4.	**Conduct investigations of complex problems**: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5.	**Modern tool usage**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
6.	**The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7.	**Environment and sustainability**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8.	**Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9.	**Individual and teamwork**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10.	**Communication**: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11.	**Project management and finance**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12.	**Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Mapping of PEOs and POs

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
PEO-1												
PEO-2												

Course Outcome Statements and CO-PO Mapping

Course Outcome Statements

18CS5CM02L.1	Designing static web pages using HTML and CSS.
18CS5CM02L.2	Creating dynamic web pages using JavaScript.
18CS5CM02L.3	Implementing Server side scripting using PHP.
18CS5CM02L.4	Creating and consuming Web Services.

CO – PO Mapping

CO/PO: Mapping

(H/M/L indicates strength of correlation) 3-High, 2-Medium, 1-Low

Course Outcome (COs)	**Programme Outcome (POs)**											
	PO-1	**PO-2**	**PO-3**	**PO-4**	**PO-5**	**PO-6**	**PO-7**	**PO-8**	**PO-9**	**PO-10**	**PO-11**	**PO-12**
CO-1	3	3	3	3	3	2	2	0	3	1	3	3
CO-2	3	3	3	3	3	2	2	0	3	1	3	3
CO-3	3	3	3	3	3	2	2	0	3	1	3	3
CO-4	3	3	3	3	3	2	2	0	3	1	3	3
Avg :	3	3	3	3	3	2	2	0	3	1	3	3

List of Experiment with CO Mapping

<table>
<tr><th>#</th><th>Title of the Experiment</th><th>CO</th></tr>
<tr><td>1.</td><td>Design a web site for book information, home page should contain books list, when particular book is clicked, information of the books should display in the next page.</td><td>CO1</td></tr>
<tr><td>2.</td><td>Design a page to display the product information such as name, brand, price and etc with table tag.</td><td>CO1</td></tr>
<tr><td>3.</td><td>Create an html page with following specifications

(a) Title should be about mycollege.
(b) Put the image in the background.
(c) Place your College name at the top of the page in large text followed by address in smaller size.
(d) Add names of courses offered each in a different color, style and typeface.
(e) Add scrolling text with a message for upcoming exam dates, events etc.</td><td>CO1</td></tr>
<tr><td>4.</td><td>Write an HTML page that contains a selection box with a list of 5 countries, when the user selects a country, its capital should be printed next to the list; Add CSS to customize the properties of the font of the capital (color, bold and font size).</td><td>CO1</td></tr>
<tr><td>5.</td><td>Design a web page to perform mathematical calculations such as addition, subtraction, multiplication, and division using form elements and Java Script.</td><td>CO2</td></tr>
<tr><td>6.</td><td>Design a web page to capture the user information such as name, gender, mobile number, mail id, city, state, and country using form elements and display them into other pages using Java Script.</td><td>CO2</td></tr>
<tr><td>7.</td><td>Design a web page to display timer in the left side of the web page using Java Script.</td><td>CO2</td></tr>
<tr><td>8.</td><td>Write a PHP program to input previous reading and present reading and prepare an electricity bill using the following conditions,

<table><tr><td>Units Consumed</td><td>Rate</td></tr><tr><td><100</td><td>Rs. 3/ Unit</td></tr><tr><td>Between 100 and 200</td><td>Rs. 4/ Unit</td></tr><tr><td>Between 200 and 300</td><td>Rs. 5/ Unit</td></tr><tr><td>>300</td><td>Rs. 6/ Unit</td></tr></table></td><td>CO3</td></tr>
<tr><td>9.</td><td>Design the HTML form for student details with elements USN, first name, last name, username, password, confirm password, email, gender etc. Display the user input using PHP.</td><td>CO3</td></tr>
</table>

10	Write a PHP database application that collects comments from users and makes it possible for users to view all the comments that have been submitted.	**CO3**
11	Create a web service in PHP and consume the Web service using REST API.	**CO4**
12	Create a JSON document for "student" object and perform parsing the same with PHP.	**CO3**

List of Tools used and Reference books

Tools / Software used

#	Tools / Software Used	Licensed / Open source
1	**SublimeText, Any Text editor**	**Open source**
2	**XAMPP**	**Open Source**

Reference Text Books

1.
2.
3.
4.
5.
6.

Experiment -1

Design a web site for book information, home page should contain books list, when particular book is clicked, information of the books should display in the next page.

Aim: The aim of this program is to create a web site using HTML.

Program:

Home.html

```
<!DOCTYPE html>
<html>
<head>
<title>Book Store</title>
</head>
<body>
<img src="book.jpg" alt="BookStore" width="100%" height="400 px">
<h1> Welcome to Book Store</h1>
Books available
<ul>
<a href="Harry Potter.html"><li>Harry Potter and the Philosopher's Stone</li></a>
<a href="The Immortals of Meluha.html"><li>The Immortals of Meluha (Shiva Trilogy) </li> </a>
<a href="Wings of Fire.html"><li>Wings of Fire: An Autobiography</li> </a>
</ul>
</body>
</html>
```

Harry Potter.html

```
<!DOCTYPE html>
<html>
<head>
<title>Harry Potter</title>
</head>
<body>
<img src="hp.jpg"> <br>
Author: J. K. Rowling<br>
Price: 250 <br>
File Size: 2384 KB <br>
Print Length: 345 pages <br>
Publisher: Pottermore Publishing (8 December 2015) <br>
Sold by: Amazon Asia-Pacific Holdings Private Limited <br>
```

Language: English

</body>

</html>

The Immortals of Meluha.html

<!DOCTYPE html>

<html>

<head>

<title>The Immortals of Meluha</title>

</head>

<body>

<img src="meluha.jpg" width="100" height="240">

Author: Amish

Price: 150

File Size: 2384 KB

Print Length: 415 pages

Publisher: Westland; Revised Edition edition (24 July 2017) (2017)

Language: English

</body>

</html>

Wings of Fire.html

<!DOCTYPE html>

<html>

<head>

<title>Wings of Fire</title>

</head>

<body>

<img src="wings.jpg">

Author: A. P. J. Abdul Kalam

Price: 735

File Size: 2241 KB

Print Length: 187 pages

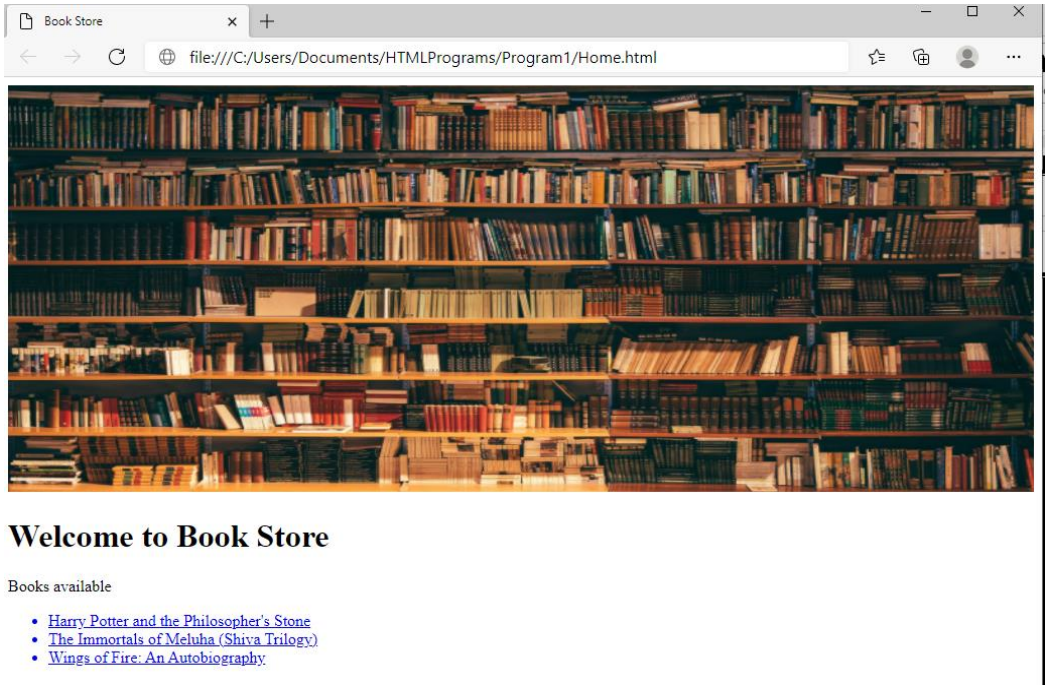
Publisher: Universities Press (India) Private Limited (26 June 2018)

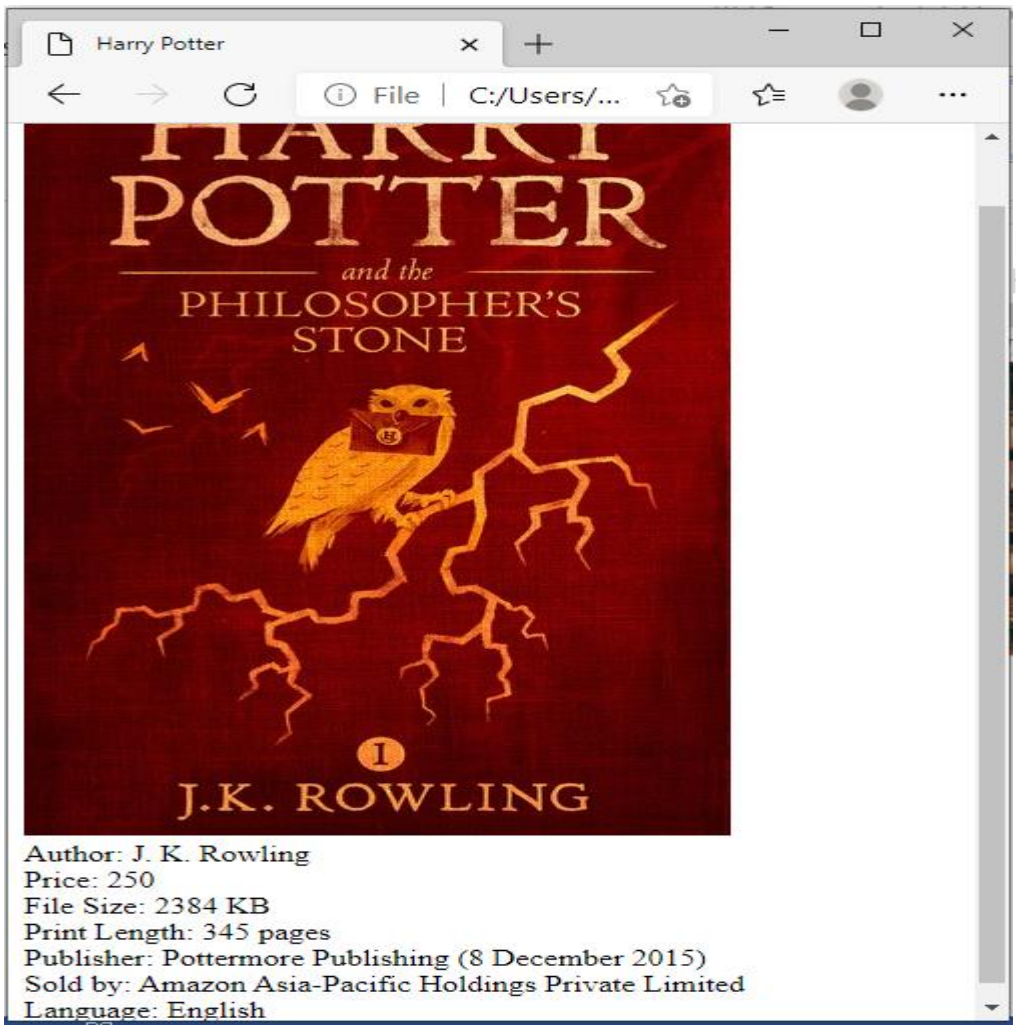
Language: English

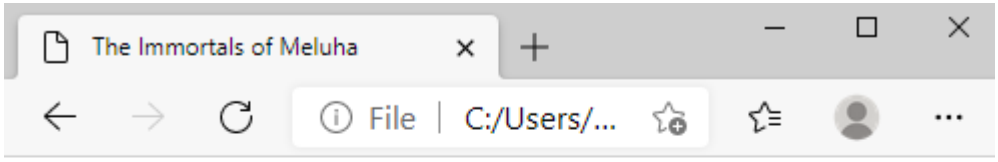
</body>

</html>

Output:







Author: Amish
Price: 150
File Size: 2384 KB
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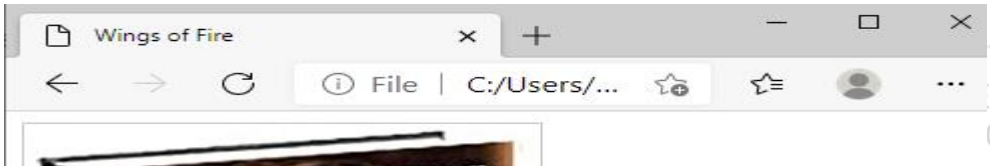
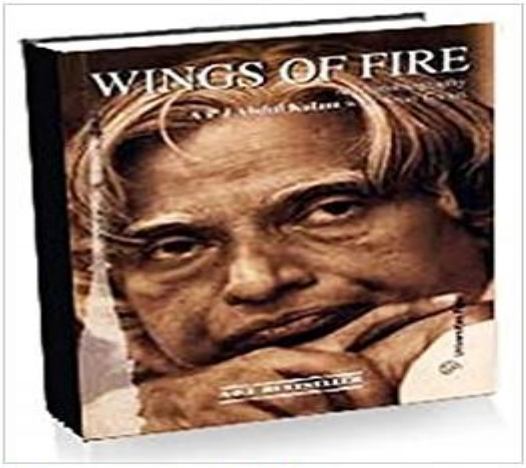
Language: English





Author: A. P. J. Abdul Kalam
Price: 735
File Size: 2241 KB
Print Length: 187 pages
Publisher: Universities Press (India) Private Limited (26 June 2018)
Language: English

Experiment -2

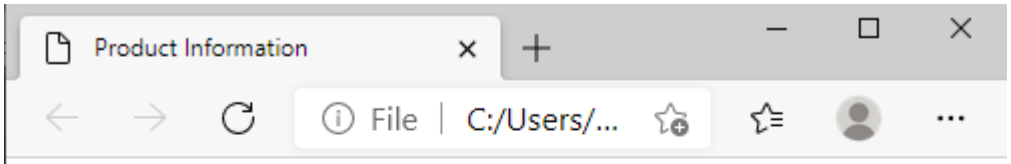
Design a page to display the product information such as name, brand, price and etc with table tag.

Aim: The aim of this program is to familiarize with table tags in HTML

Program:

```
<!DOCTYPE html>
<html>
<head>
<title>Product Information</title>
</head>
<body>
<table border="1">
<thead> Product Information</thead>
<tr>
<th>Product Name</th>
<th> Brand</th>
<th> Price</th>
</tr>
<tr>
<td> <img src="harddisk.jpg"alt="harddisk" width="120" height="120">External Hard Disk</td>
<td>Dell External Hard Disk</td>
<td>Rs 4500</td>
</tr>
<tr>
<td> <img src="laptop.jpg" alt="Laptop" width="120px" height="120px"> Laptop </td>
<td>Lenovo</td>
<td>Rs 40000</td>
</tr>
</table>
<marquee direction="up" height="100" width="200" bgcolor="white">Product
Information</marquee>
</body>
</html>
```

Output:



Product Information

Product Name	Brand	Price
 External Hard Disk	Dell External Hard Disk	Rs 4500
 Laptop	Lenovo	Rs 40000

Experiment -3

Create an html page with following specifications

(f) Title should be about mycollege.
(g) Put the image in the background.
(h) Place your College name at the top of the page in large text followed by address in smaller size.
(i) Add names of courses offered each in a different color, style and typeface.
(j) Add scrolling text with a message for upcoming exam dates, events etc.

Aim: Understanding different tags in HTML.

Program:

```
<!DOCTYPE html>

<html>

<head>

<title>My College</title>

</head>

<style>

marquee{

font-size: 30px;

font-weight: 800;

color:antiquewhite;

font-family:sans-serif;

}

body{

background-image: url("1.jfif");

background-position: center;

background-repeat: no-repeat;
background-size:cover; }

</style>

<body>

<h1 style="text-align:center;font-size: 65px;color:black">Jain School of  Engineering and
Technology</h1>

 <p>

        <b>School of Engineering and Technology</b><br>

Jakkasandra post,Kanakapura Taluk,<br>
```

```
Ramanagara District-562112<br>

Ph:+9180-27577200 Fax:+8180-27577199<br>

Email:set.jainuniversity.ac.in

</p>

<p align tabindex="right">

<p style="font-size:50px";color:black>

<b>Courses</b></p>

<ul style="font-size: 25px;font-style:bold;color:#800000" > <li><b>Department of
Computer Science Engineering</b></li> <li><b>Department of Aerospace
Engineering</b></li>
<li><b>Department of Electrical and Electronics Engineering</b></li> <li><b>Department of
Electronics and communication Engineering</b></li> <li><b>Department of Civil
Engineering</b></li>
<li><b>Department of Mechanical Engineering</b></li>

<li><b>Department of Basic Science</b></li>

</ul>

</p>
</body>

<marquee behavior="scroll" direction="left">JET Exam 2020 For B.Tech/M.Tech is  on 12-06-2020
</marquee>

</html>
```


Output:

Experiment -4

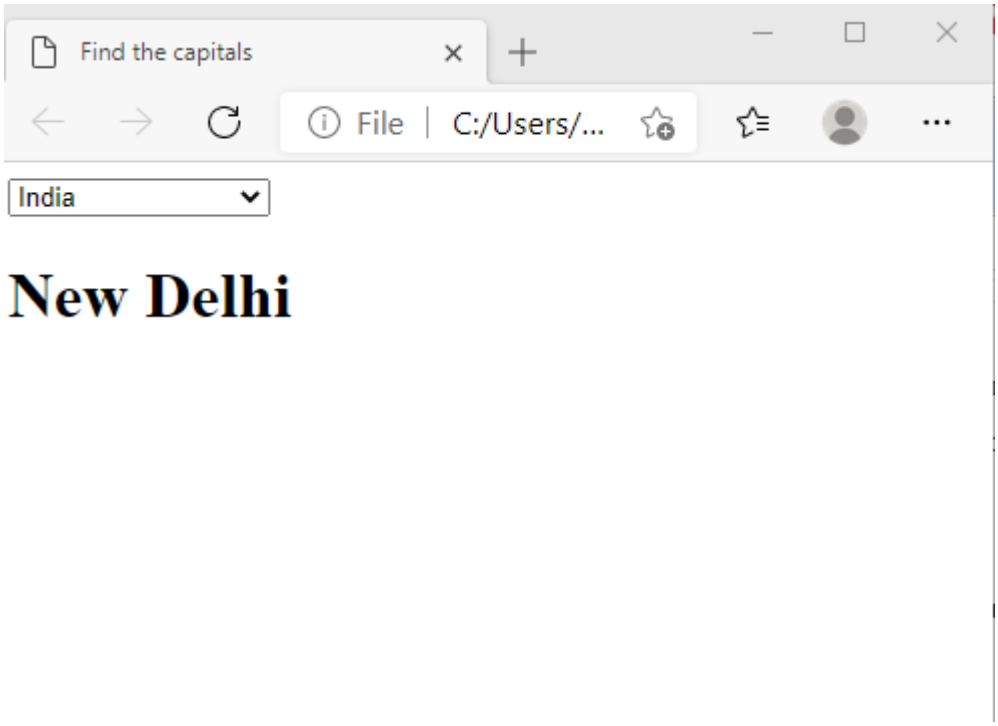
Write an HTML page that contains a selection box with a list of 5 countries, when the user selects a country, its capital should be printed next to the list; Add CSS to customize the properties of the font of the capital (color, bold and font size).

Aim: Creating HTML web page and styling with CSS.

Program:

```
<!DOCTYPE html>
<html>
<head>
<title>Find the capitals </title>
<script type="text/javascript">
function getCapital()
{
document.getElementById("capital").innerHTML =
document.getElementById("country").value;
}
</script>
</head>
<body>
<select id="country" onchange="getCapital();">
<option>Select the country</option>
<option value="New Delhi">India</option>
<option value="Washington DC">USA</option>
<option value="Beijing">China</option>
<option value="Tokyo">Japan</option>
<option value="Berlin">Germany</option>
</select>
<h1 id="capital"></h1>
</body>
</html>
```

Output:



Experiment -5

Design a web page to perform mathematical calculations such as addition, subtraction, multiplication, and division using form elements and Java Script.

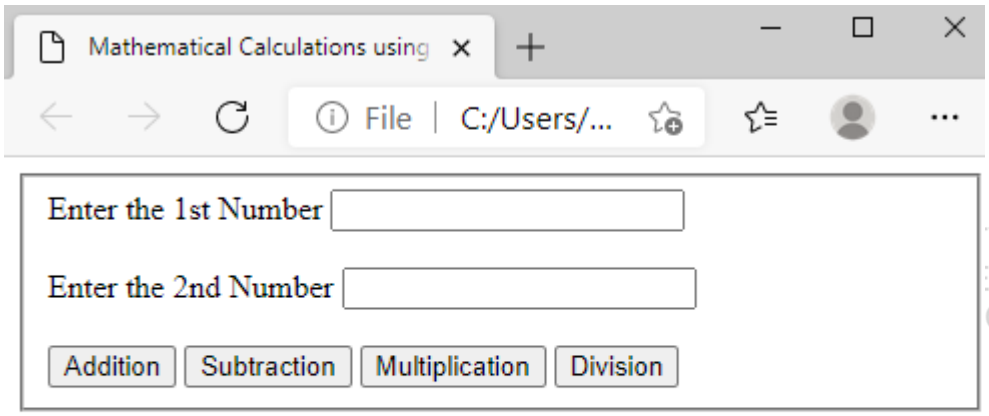
Aim: Creating a web page for mathematical calculations.

Program:

```
<!DOCTYPE html>
<html>
<head>
<title>Mathematical Calculations using JavaScript</title>
</head>
<body>
<form>
<fieldset>
Enter the 1st Number
<input type="text" id="Number1"> <br>
<br>Enter the 2nd Number
<input type="text" id="Number2"> <br>
<br> <input type="button" value="Addition" onclick="add()">
<input type="button" value="Subtraction" onclick="sub()">
<input type="button"  value="Multiplication" onclick="mul()">
<input type="button" value="Division" onclick="div()">
</fieldset>
</form>
<p id="result"></p>
<script type="text/JavaScript">
function add(){
var num1=Number(document.getElementById("Number1").value);
var num2=Number(document.getElementById("Number2").value);
var re=num1+num2;
document.getElementById("result").innerHTML="Result="+re;}
function sub(){
var num1=Number(document.getElementById("Number1").value);
var num2=Number(document.getElementById("Number2").value);
var re=num1-num2;
document.getElementById("result").innerHTML="Result="+re;}
function mul(){
```

```
var num1=Number(document.getElementById("Number1").value);
var num2=Number(document.getElementById("Number2").value);
var re=num1*num2;
document.getElementById("result").innerHTML="Result="+re;}
function div(){
var num1=Number(document.getElementById("Number1").value);
var num2=Number(document.getElementById("Number2").value);
var re=num1/num2;
document.getElementById("result").innerHTML="Result="+re;}
</script>
</body>
</html>
```

Output



Experiment -6

Design a web page to capture the user information such as name, gender, mobile number, mail id, city, state, and country using form elements and display them into other pages using Java Script.

Aim: Creating forms using JavaScript

Program:

Form.html

```
<!DOCTYPE html>
<html>
<head>
<title>Application Form</title>
</head>
<body>

<form >
<fieldset>
Name:<input type="text" id="uname">
<p>Please select your gender:</p>
<input type="radio" id="male" name="gender" value="male"> Male
<input type="radio" id="female" name="gender" value="female"> Female
 <input type="radio" id="other" name="gender" value="other"> Other <br>
  <br> Mobile Number:
<input type="tel" id="mobile" name="phone"> <br>
<br>Email Id:
<input type="email" id="email" name="email"> <br>
<br>City:
<input type="text" id="city"> <br>
<br>State:
<input type="text" id="state"> <br>
<br>Country
<select id="country" placeholder="Select Country">
  <option >India</option>
  <option >USA</option>
  <option >China</option>
</select>
```

```
<br> <input type="button" value="Submit" onclick="add()">
</fieldset>
</form>
<script type="text/JavaScript">
function add(){
var input = document.getElementsByName('gender');
         for (var i = 0; i < input.length; i++) {
         if (input[i].checked)
             var a = input[i].value;}
         var b= document.getElementById("mobile").value;
         var c= document.getElementById("email").value;
         var d= document.getElementById("city").value;
         var e= document.getElementById("state").value;
         var f= document.getElementById("country").value;
window.document.location='./detail.html'+'?Name='+document.getElementById("uname").va
lue+'&'+'Gender='+a+'&Mobile='+b+'&Email='+c+'&City='+d+'&State='+e+'&Country='+f;
}
</script>
</body>
</html>
```

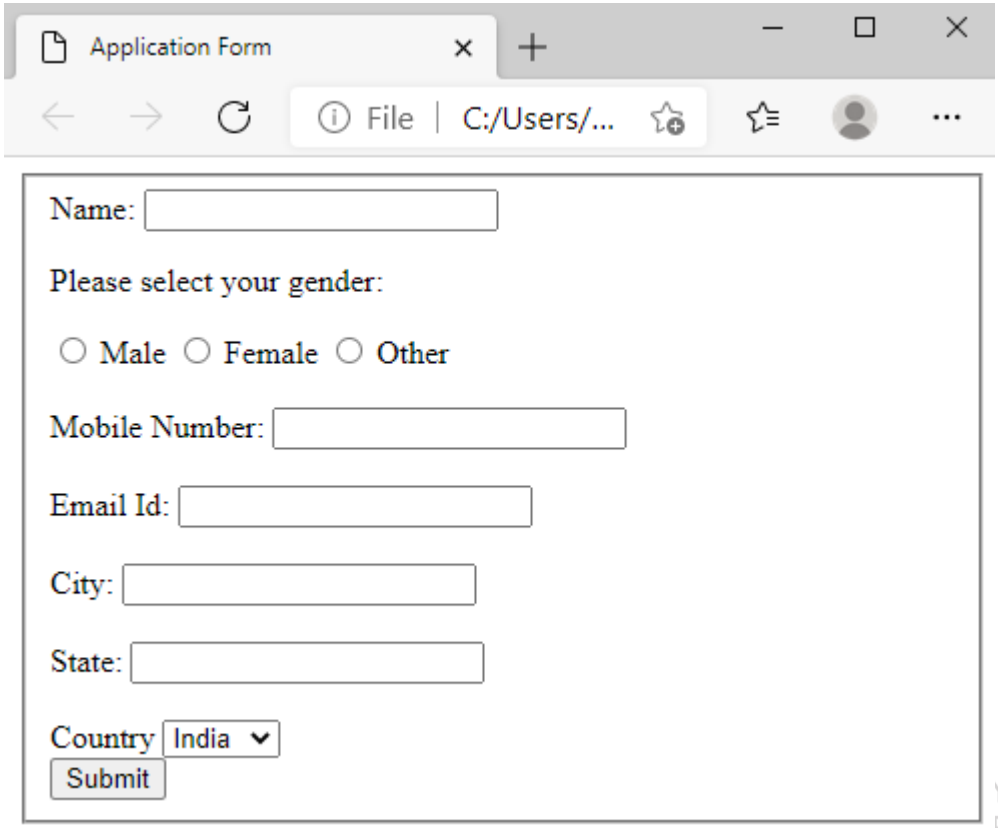

Detail.html

```
<!DOCTYPE html>
<html>
<head>
<title>Details</title>
</head>
<body>
<h1>Details: </h1>
<p id= para> </p>
<script>
  var parts=document.URL.split("?");
  var p= parts[1].split("&");
  for(i=0;i<p.length;i++){
  document.getElementById('para').innerHTML=
  document.getElementById('para').innerHTML+'<br>'+p[i];}
</script>
```

</body>

</html>

Output:



Experiment -7

Design a web page to display timer in the left side of the web page using Java Script.

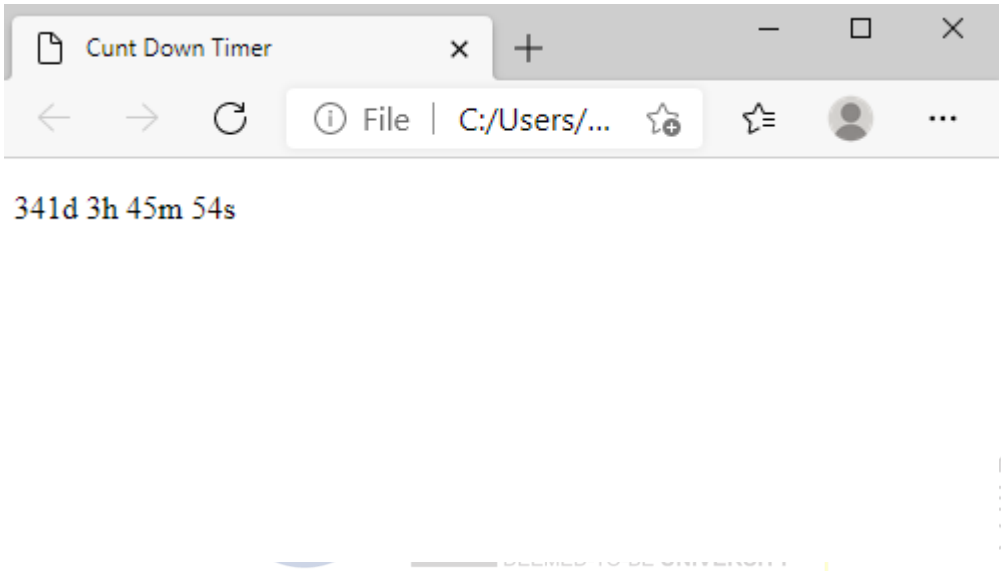
Aim: Using Timer with the help of JavaScript.

Program:

```
<!DOCTYPE html>
<html>
<head>
<title>Cunt Down Timer</title>
</head>
<body>
<!-- Display the countdown timer in an element -->
<p id="demo"></p>

<script>
// Set the date we're counting down to
var countDownDate = new Date("Jan 15, 2022 15:37:25").getTime();

// Update the count down every 1 second
var x = setInterval(function() {

  // Get today's date and time
  var now = new Date().getTime();

  // Find the distance between now and the count down date
  var distance = countDownDate - now;

  // Time calculations for days, hours, minutes and seconds
  var days = Math.floor(distance / (1000 * 60 * 60 * 24));
  var hours = Math.floor((distance % (1000 * 60 * 60 * 24)) / (1000 * 60 * 60));
  var minutes = Math.floor((distance % (1000 * 60 * 60)) / (1000 * 60));
  var seconds = Math.floor((distance % (1000 * 60)) / 1000);
// Display the result in the element with id="demo"
  document.getElementById("demo").innerHTML = days + "d " + hours + "h "
  + minutes + "m " + seconds + "s ";

  // If the count down is finished, write some text
```

```
  if (distance < 0) {
    clearInterval(x);
    document.getElementById("demo").innerHTML = "EXPIRED";
  }
}, 1000);
</script>
</body>
</html>
```

Output:



Experiment -8

Write a PHP program to input previous reading and present reading and prepare an electricity bill using the following conditions,

Units Consumed	Rate
<100	Rs. 3/ Unit
Between 100 and 200	Rs. 4/ Unit
Between 200 and 300	Rs. 5/ Unit
>300	Rs. 6/ Unit

Aim: Understanding basic concepts of PHP.

Program:

Electricitybil.html

```
<html>
<head>
<title>ELECTRICITY BILL</title>
<style>
tr:nth-child(even) {background-color: yellow}
th {
 background-color: green;
 color: white;
}
th, td {
 padding: 12px;
}
</style>
</head>
<body>
<br><br>
<form action="example.php" method="get">
<center>
<table width="50%" border="0" cellspacing="0" cellpadding="10">
<tr><th colspan="2"><h2>ELECTRICITY BILL</h2></th></tr>
```

```
<tr>
<td>Enter the consumer number</td>
<td><input type="text" name="consumer_number"></td>
</tr>
<tr>
<td>Enter the customer name</td>
<td><input type="text" name="consumer_name"></td>
</tr>
<tr>
<td>Enter the previous reading</td>
<td><input type="text" name="previous_reading"></td>
</tr>
<tr>
<td>Enter the present reading</td>
<td><input type="text" name="present_reading"></td>
</tr>
<tr>
<th colspan="2"><input type="submit" value="SUBMIT"></th>
</tr>
</table>
</center>
</form>
</body>
</html>
```

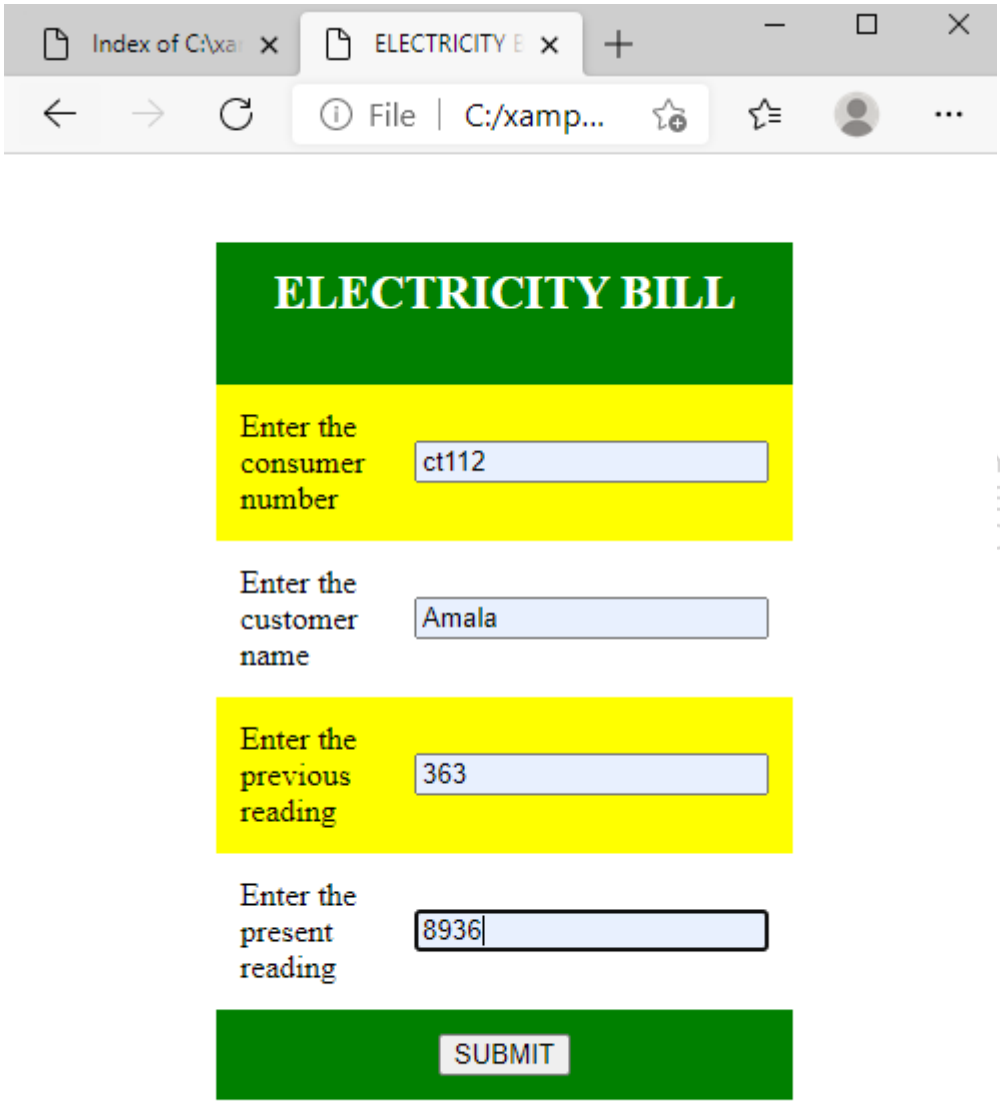

Example.php

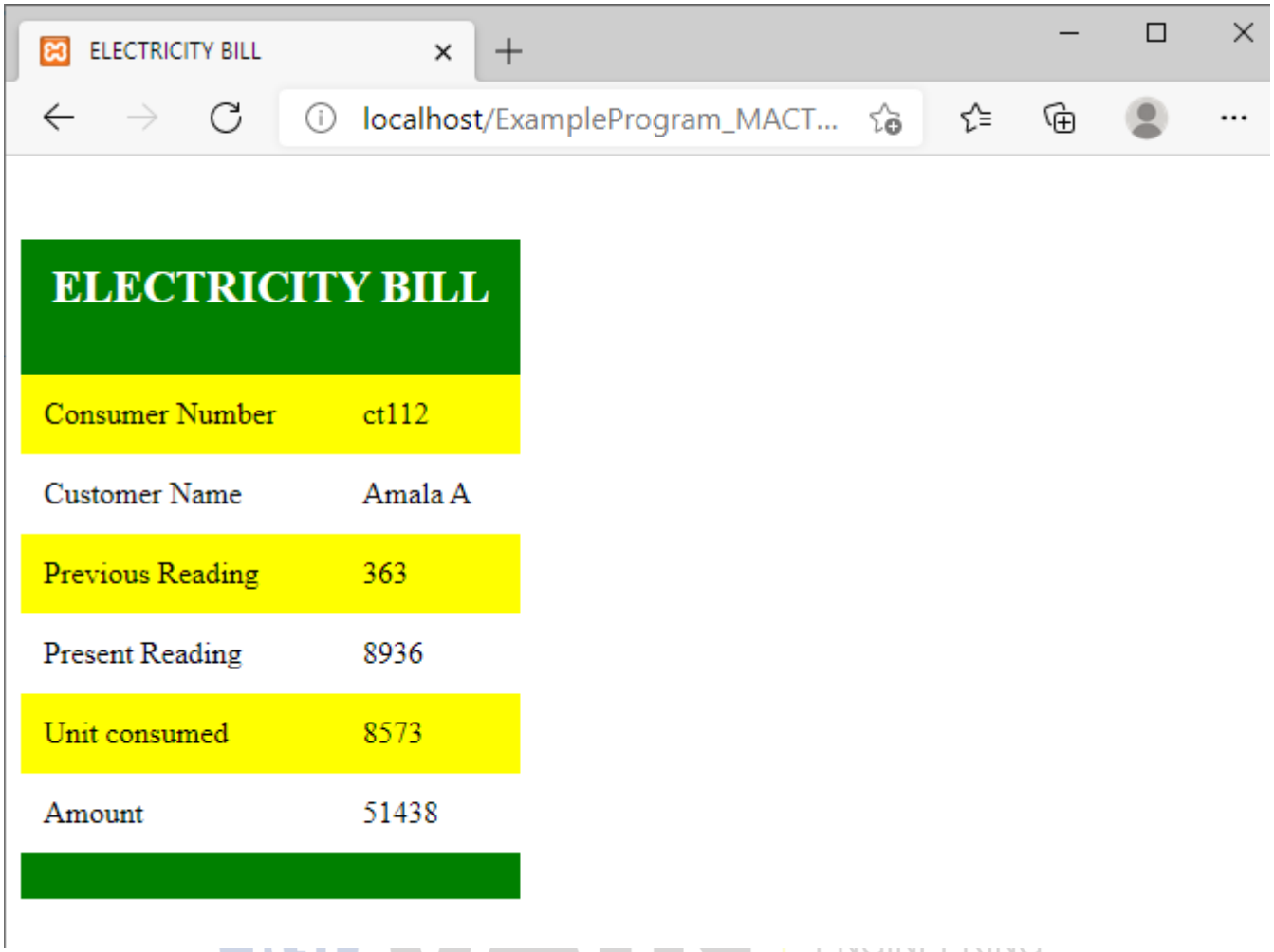
```
<html>
<head>
<title>ELECTRICITY BILL</title>
<style>
tr:nth-child(even) {background-color: yellow}
th {
 background-color: green;
 color: white;
}
th, td {
```

```
 padding: 12px;
}
</style>
</head>
<body>
<br><br>
<?php
$consumer_number = $_GET["consumer_number"];
$consumer_name = $_GET["consumer_name"];
$previous_reading = $_GET["previous_reading"];
$present_reading = $_GET["present_reading"];
$unit = $present_reading - $previous_reading;
if ($unit < 100) {
 $amt = $unit * 3;
 } else if (100 <= $unit && $unit <= 200) {
 $amt = $unit * 4;
} else if (200 <= $unit && $unit <= 300) {
 $amt = $unit * 5;
} else {
 $amt = $unit * 6;
}
echo '<table width="40%" border="0" cellspacing="0" cellpadding="10">
<tr><th colspan="2"><h2>ELECTRICITY BILL</h2></th></tr>';
echo "<tr>
<td>Consumer Number</td>
<td>$consumer_number</td>
</tr>";
echo "<tr><td>Customer Name</td>
<td>$consumer_name</td>
</tr>";
echo "<tr><td>Previous Reading</td>
<td>$previous_reading</td>
</tr>";
echo "<tr><td>Present Reading</td>
<td>$present_reading</td>
</tr>";
```

```
echo "<tr><td>Unit consumed</td>
<td>$unit</td>
</tr>";
echo "<tr><td>Amount</td>
<td>$amt</td>
</tr>";
echo '<tr><th colspan="2"> </th></tr></table></body></html>';
?>
```

Output:





Experiment -9

Design the HTML form for student details with elements USN, first name, last name, username, password, confirm password, email, gender etc. Display the user input using PHP.

Aim: Creating forms using PHP.

Program:

Studentdetails.html

```
<!DOCTYPE html>
<html>
<head>
<title>Student Datail</title>
</head>
<body>
<form action="example.php" method="post">
<fieldset>
<table width="50%" border="0" cellspacing="0" cellpadding="10">
<tr>
<th>USN</th>
<td><input type="text" name="usn"></td>
</tr>
<tr>
<th>First Name</th>
<td><input type="text" name="fname"></td>
</tr>
<tr>
<th>Last Name</th>
<td><input type="text" name="lname"></td>
</tr>
<tr>
<th>Gender</th>
<td><input type="radio" id="male" name="gender" value="male"> Male
  <input type="radio" id="female" name="gender" value="female"> Female
  <input type="radio" id="other" name="gender" value="other"> Other</td>
</tr>
<tr>
```

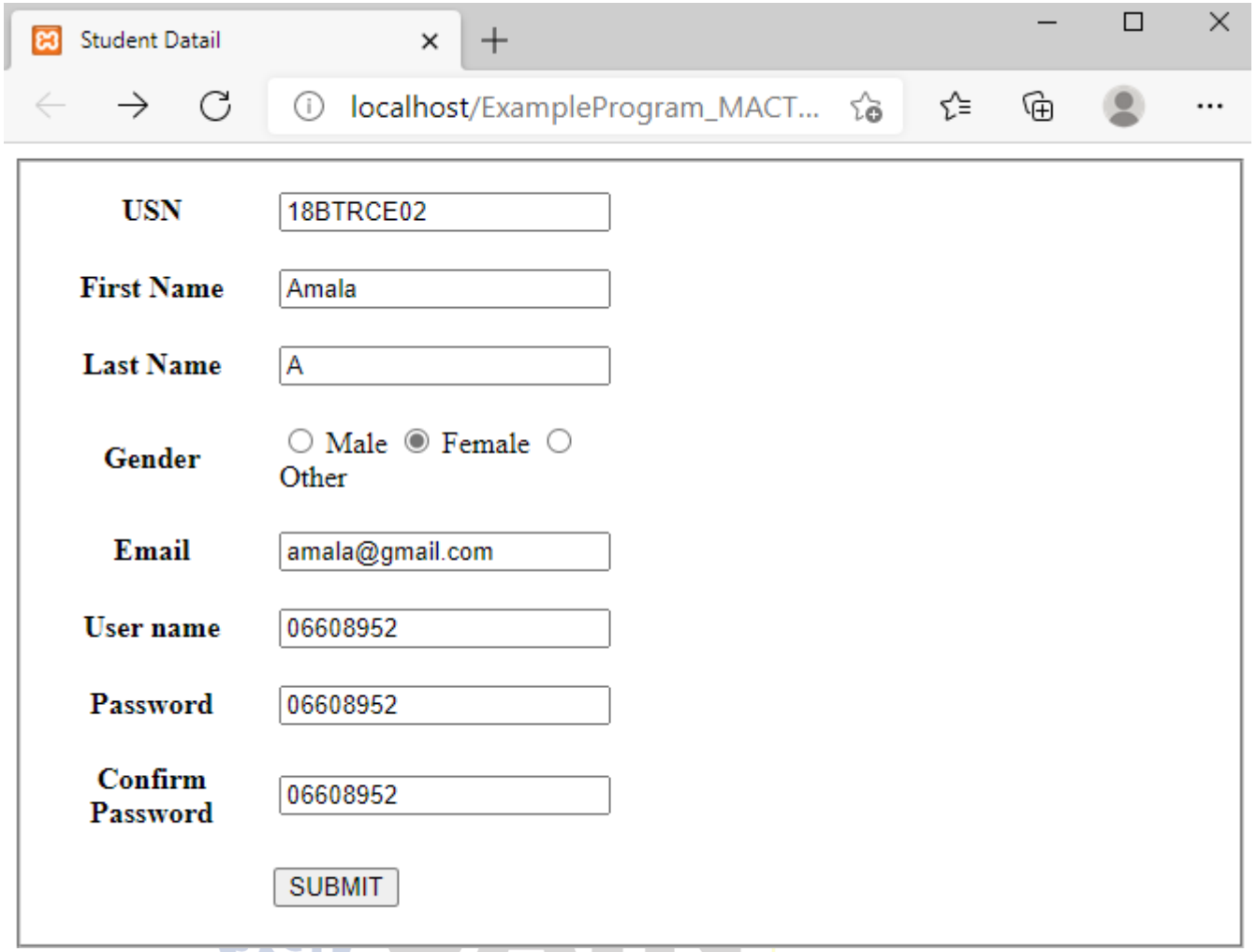
```
<th>Email</th>
<td><input type="text" name="email"></td>
</tr>
<tr>
<th>User name</th>
<td><input type="text" name="username"></td>
</tr>
<tr>
<th>Password</th>
<td><input type="text" name="psw"></td>
</tr>
<tr>
<th>Confirm Password</th>
<td><input type="text" name="cpsw"></td>
</tr>
<tr>
<th colspan="2"><input type="submit" value="SUBMIT" name="Submit"></th>
</tr>
</table>
</fieldset>
</form>
</body>
</html>
```

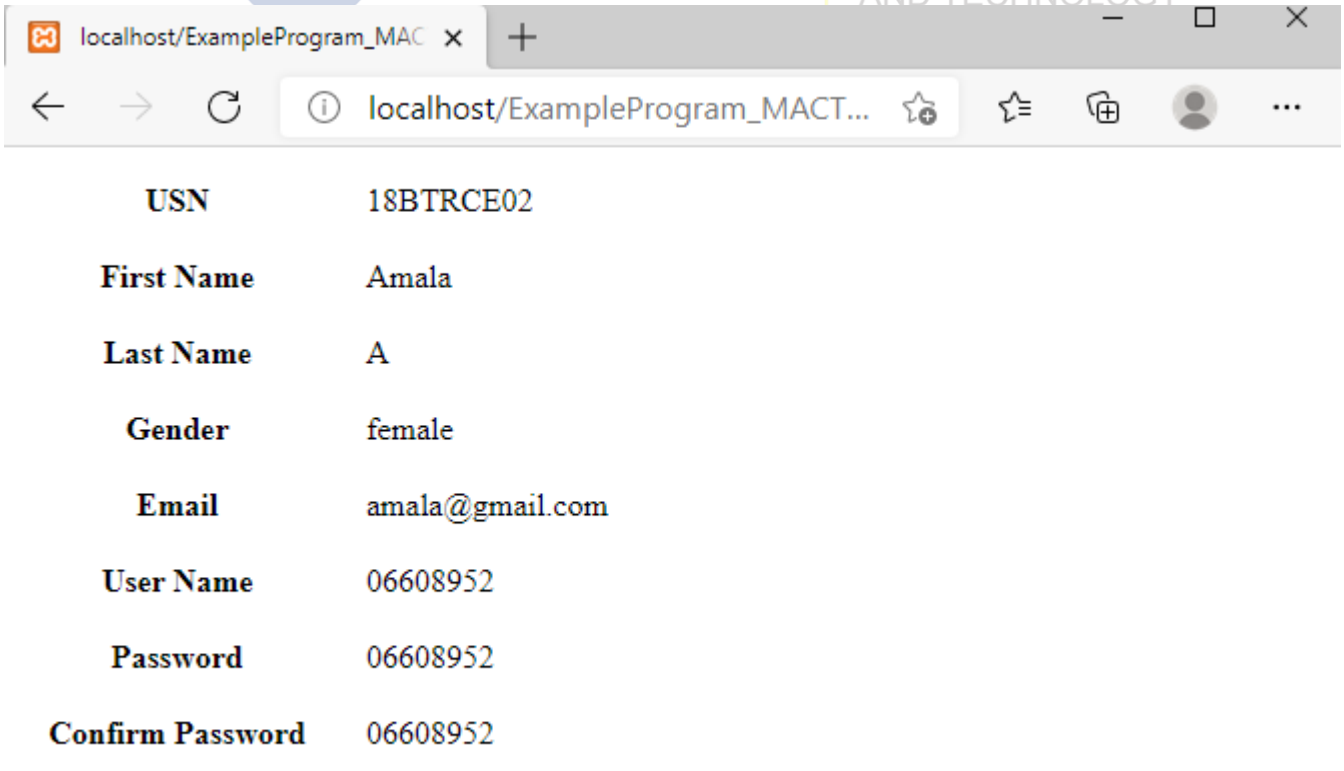
Example.php

```
<?php
if(isset($_POST["Submit"])){
$usn=$_POST['usn'];
$fname=$_POST['fname'];
$lname=$_POST['lname'];
$gender=$_POST['gender'];
$email=$_POST['email'];
$username=$_POST['username'];
$password=$_POST['psw'];
$cpsw=$_POST['cpsw'];
```

```
echo'<table width="50%" border="0" cellspacing="0"
cellpadding="10"><tr><th>USN</th><td>';
echo "$usn";
echo '</td></tr>';
echo '<tr><th>First Name</th><td>';
echo "$fname";
echo '</td></tr>';
echo '<tr><th>Last Name</th><td>';
echo"$lname";
echo '</td></tr>';
echo '<tr><th>Gender</th><td>';
echo "$gender";
echo '</td></tr>';
echo '<tr><th>Email</th><td>';
echo "$email";
echo '</td></tr>';
echo '<tr><th>User Name</th><td>';
echo "$username";
echo '</td></tr>';
echo '<tr><th>Password</th><td>';
echo "$password";
echo '</td></tr>';
echo '<tr><th>Confirm Password</th><td>';
echo "$cpsw";
echo '</td></tr>';
echo '</table>';
}
?>
```

Output:


Student Datail
localhost/ExampleProgram_MACT...
USN
18BTRCE02
First Name
Amala
Last Name
A
Gender
Male
Female
Other
Email
amala@gmail.com
User name
06608952
Password
06608952
Confirm Password
06608952
SUBMIT


localhost/ExampleProgram_MAC
localhost/ExampleProgram_MACT...
USN 18BTRCE02
First Name Amala
Last Name A
Gender female
Email amala@gmail.com
User Name 06608952
Password 06608952
Confirm Password 06608952

Experiment -10

Write a PHP database application that collects comments from users and makes it possible for users to view all the comments that have been submitted.

Aim: Understanding the PHP database application

Program:

dbconfig.php

```
<?php
//Connecting to the database
$servername = "localhost";
$username = "root"; //edit if you have set a username for MySQL
$password = "1234"; // edit if you have set a password
$dbname = "example";
// Create connection syntax
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
?>
```


Comments.html

```
<!DOCTYPE html>
<html>
<head>
<title>Book Review</title>
</head>
<body>
<form action="save.php" method="post">
<table width="50%" border="0" cellspacing="0" cellpadding="10">
<tr>
<th colspan="2"><img src="meluha.jpg" alt="Error" width=230 and height=230></th>
</tr>
<tr>
<th>User Name</th>
<td><input type="text" name="user"></td>
```

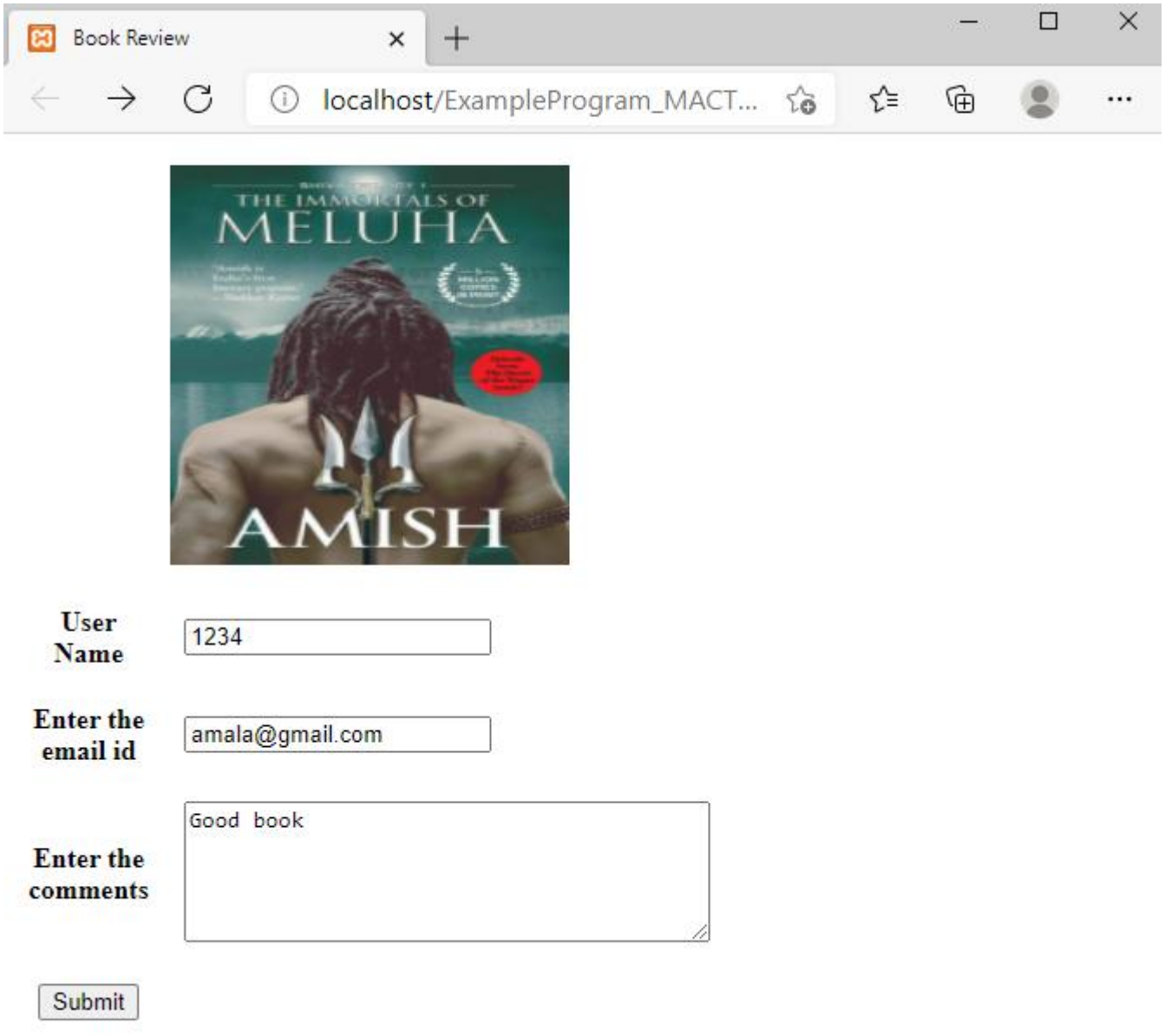
```
</tr>
<tr>
<th>Enter the email id</th>
<td><input type="text" name="email"></td>
</tr>
<tr>
<th>Enter the comments</th>
<td><textarea name="comment"rows="5" cols="40"></textarea></td>
</tr>
<tr>
<th><input type="submit" value="Submit" name="Submitcomment"></th>
</tr>
</table>
</form>
</body>
</html>
```

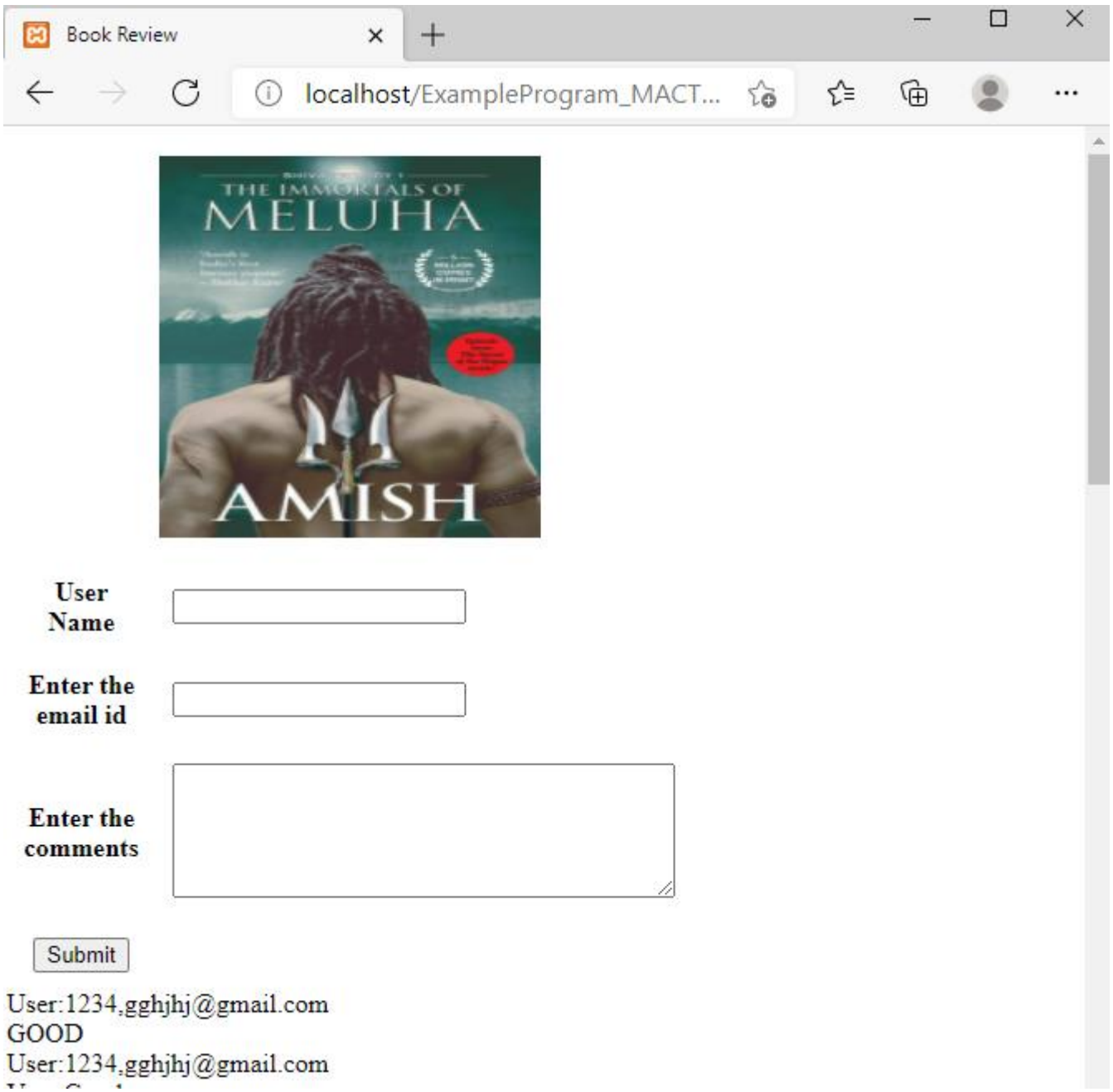
save.php

```
<?php
include 'dbconfig.php';
include 'comments.html';
if(isset($_POST["Submitcomment"])){
$textareaValue = trim($_POST['comment']);
$user=$_POST["user"];
$email=$_POST["email"];
$sql = "INSERT INTO comments (user, email, comment)
VALUES ('$user','$email','$textareaValue')";
if ($conn->query($sql) === TRUE) {
echo "
   <script type= 'text/javascript'>
      alert('Comments stored successfully');
   </script>";
}
else
{
   echo
```

```
    "<script type= 'text/javascript'>
        alert('Error: " . $sql . "<br>" . $conn->error."');
    </script>";
}
}
$username=$_POST["user"];
$sq ="SELECT user,email,comment FROM comments";
$result = $conn->query($sq);
while($row = $result->fetch_assoc()){
        echo "User:";
        echo $row['user'].",";
        echo $row['email']."<br>";
        echo $row['comment'];
        echo "<br>";
    }
$conn->close();
?>
```

Output


Book Review
localhost/ExampleProgram_MACT...
THE IMMORTALS OF
MELUHA
AMISH
User Name
1234
Enter the email id
amala@gmail.com
Enter the comments
Good book
Submit


Book Review
localhost/ExampleProgram_MACT...
THE IMMORTALS OF
MELUHA
AMISH
User Name
Enter the email id
Enter the comments
Submit
User:1234,gghjhj@gmail.com
GOOD
User:1234,gghjhj@gmail.com

Experiment -11

Create a web service in PHP and consume the Web service using REST API.

Aim: To understand Web services

Program:

dbconfig.php

```
<?php
$servername = "localhost";
$username = "root"; //edit if you have set a username for MySQL
$password = "1234"; // edit if you have set a password
$dbname = "formexample";

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

?>
```

API.php

```
<?php
header("Content-Type:application/json");
 include('dbconfig.php');
if (isset($_GET['order_id']) && $_GET['order_id']!="") {

 $order_id = $_GET['order_id'];
 $sq = "SELECT * FROM `transactions` WHERE order_id=$order_id";
 $result = $conn->query($sq);
 if(mysqli_num_rows($result)>0){
$row = $result->fetch_assoc();
 $amount = $row['amount'];
$response_code = $row['response_code'];
```

```
 $response_desc = $row['response_desc'];
 response($order_id, $amount, $response_code,$response_desc);
 $conn->close();
 }else{
 response(NULL, NULL, 200,"No Record Found");
 }
}else{
 response(NULL, NULL, 400,"Invalid Request");
 }

function response($order_id,$amount,$response_code,$response_desc){
 $response['order_id'] = $order_id;
 $response['amount'] = $amount;
 $response['response_code'] = $response_code;
 $response['response_desc'] = $response_desc;
 $json_response = json_encode($response);
 echo $json_response;
}
?>
```


.htaccess

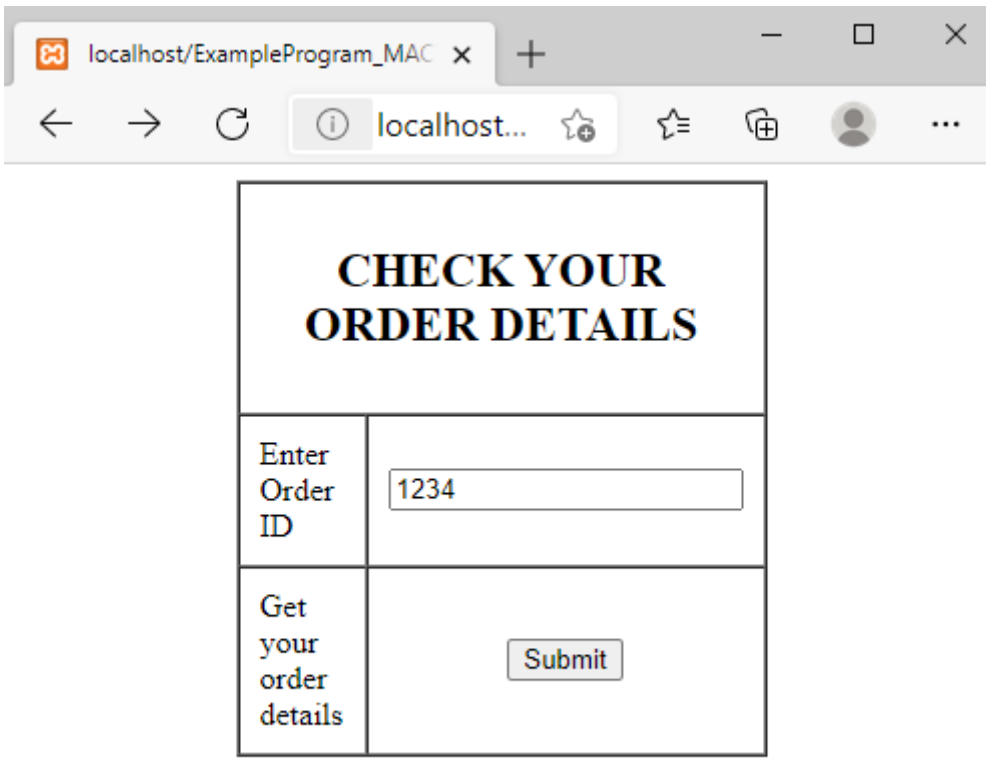
```
RewriteEngine On    # Turn on the rewriting engine

RewriteRule ^api/([0-9a-zA-Z_-]*)$ api.php?order_id=$1 [NC,L]
```

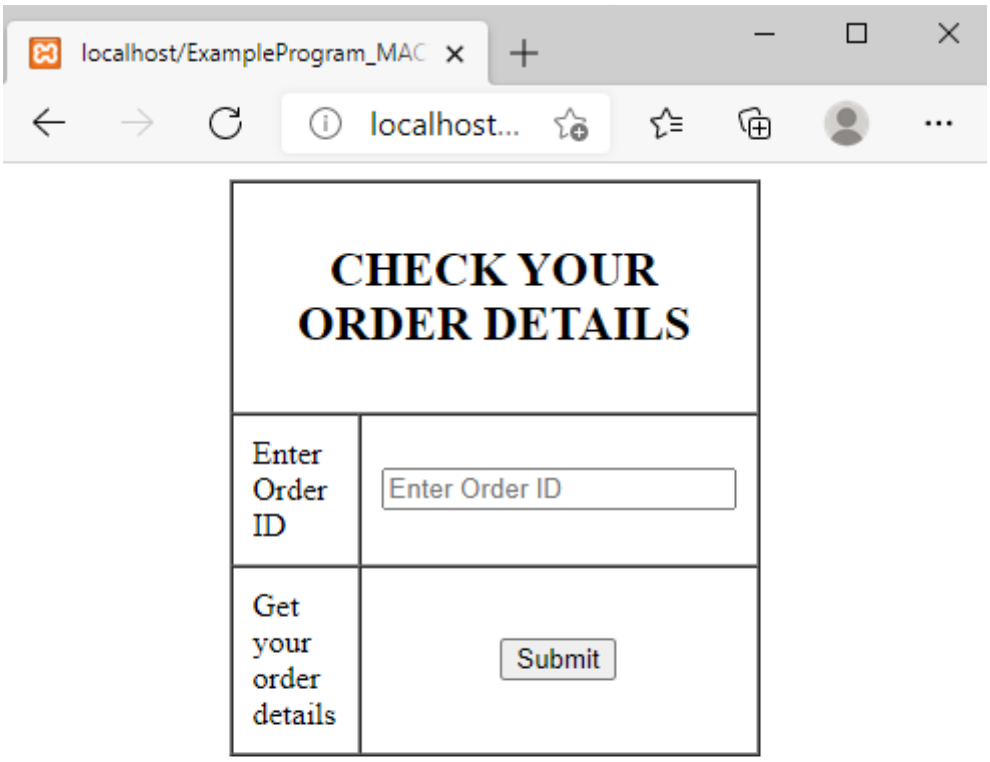
Index.html

```
<!DOCTYPE html>
<html>
<head>
<title></title>
</head>
<body>
<form action="" method="POST">
<table width="40%" border="1" cellspacing="0" cellpadding="10" align="center">
<tr><th colspan="2"><h2>CHECK YOUR ORDER DETAILS</h2></th></tr>
```

```
<tr><td>Enter Order ID</td>
 <td><input type="text" name="order_id" placeholder="Enter Order ID" required>
 </td></tr>
<tr><td>Get your order details</td>
<th><button type="submit" name="submit">Submit</button> </th></tr>
</table>
</form>

</body>
</html>

<?php
if (isset($_POST['order_id']) && $_POST['order_id']!="") {
 $order_id = $_POST['order_id'];
 $url = "http://localhost/ExampleProgram_MACT/Labprogram11/API/".$order_id;

 $client = curl_init($url);
 curl_setopt($client,CURLOPT_RETURNTRANSFER,true);
 $response = curl_exec($client);

 $result = json_decode($response,true);
 echo "<table>";
 echo "<tr><td>Order ID:</td><td>";
 echo $result['order_id'];
 echo "</td></tr>";
 echo "<tr><td>Amount:</td><td>";
 echo $result['amount'];
 echo "</td></tr>";
 echo "<tr><td>Response Code:</td><td>";
 echo $result['response_code'];
 echo "</td></tr>";
 echo "<tr><td>Response Desc:</td><td>";
 echo $result['response_desc'];
 echo "</td></tr>";
 echo "</table>"; }
   ?>
```

Output





Order ID: 1234
Amount: 100.00
Response Code: 0
Response Desc: PAID

Experiment -12

Create a JSON document for "student" object and perform parsing the same with PHP.

Aim: To understand JSON concepts

Program:

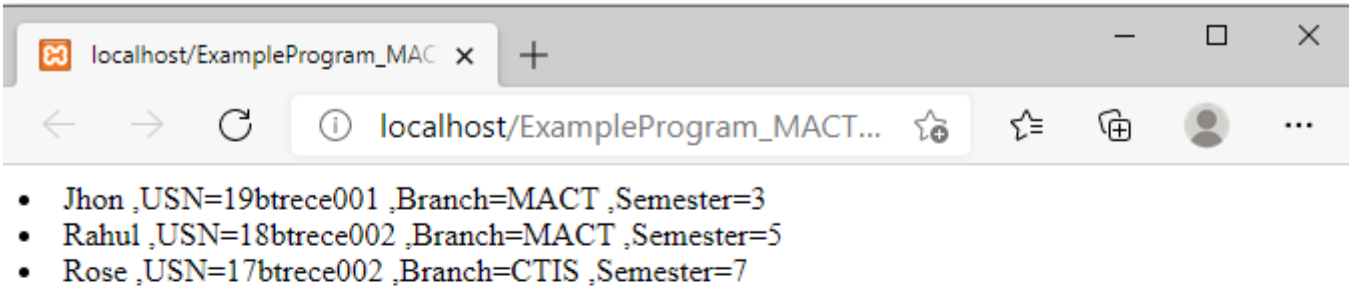
students.json

```
[
{
"name":"Jhon",
"usn": "19btrece001",
"branch":"MACT",
"sem":3
},
{
"name":"Rahul",
"usn": "18btrece002",
"branch":"MACT",
"sem":5
},
{
"name":"Rose",
"usn": "17btrece002",
"branch":"CTIS",
"sem":7
}
]
```


studentinfo.php

```
<?php
$student= file_get_contents('student.json');
$stu= json_decode($student,true);
foreach ($stu as $s) {
echo '<li>'.$s['name'].' ,'.'USN='.$s['usn'].' ,'.'Branch='.$s['branch'].'
,'.'Semester='.$s['sem'].'</li>';
}
?>
```

Output:



- Jhon ,USN=19btrece001 ,Branch=MACT ,Semester=3
- Rahul ,USN=18btrece002 ,Branch=MACT ,Semester=5
- Rose ,USN=17btrece002 ,Branch=CTIS ,Semester=7

(include for all Experiments)

Rubrics for Evaluation (CIA and Semester End Assessment)

Rubrics for CIA

Rubrics for Semester End Assessment