MOHANDAS COLLEGE OF ENGINEERING AND TECHNOLOGY

Anad, Nedumangad Thiruvananthapuram-695 544

.....

LAB RECORD

Name .....
University Reg No.....
Class..... Branch.....
Year.....
From Page No.....To.....

MOHANDAS COLLEGE OF ENGINEERING AND TECHNOLOGY

ANAD, NEDUMANGAD THIRUVANANTHAPURAM-695 544

.....

LAB RECORD

Name .....
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Certified Bonafide Record of Work Done By

.....

Place.....
Date.....

(Staff in Charge)

Examiners

External

Internal

INDEX

SL.NO	NAME OF THE EXPERIMENT	DATE	PAGE NO	SIGNATURE

Experiment No : 1
Date : 11-11-2021

WEB PAGE USING HTML TAGS

AIM

To model a simple HTML file to demonstrate the use of different tags.

SOURCE CODE

```
<html>
<head>
      <title>Demonstrate Different Tags</title>
</head>
<body>
   <h1>This is 1st level heading</h1>
   <h2>This is 2nd level heading</h2>
   <h3>This is 3rd level heading</h3>
   <h4>This is 4th level heading</h4>
   <h5>This is 5th level heading</h5>
   <h6>This is 6th level heading</h6>
   <p>This is a normal paragraph.
      <strong>The HyperText Markup Language</strong>, or <u>HTML</u> is the
      <mark>markup language</mark> for documents designed to be displayed in a
       <b>web browser</b>. It can be assisted by technologies such as <i>Cascading Style
       Sheets</i> and scripting languages such as <em>JavaScript</em>.
   </p>
   <hr>
   <h3>An Unordered HTML List</h3>
      <ul type="circle"> <!--type="circle/disc/square"-->
         <li>Coffee</li>
         <li>Tea</li>
         <li>Milk</li>
      </ul>
<h3>An Ordered HTML List</h3>
      <ol type="1"> <!--type="i/I/a/A/1"-->
         <li>Coffee</li>
         <li>Tea</li>
         <li>Milk</li>
      </ol>
   <hr>
   <h3>Links in HTML</h3>
         Home Page: <a href="/testinglink.html">External Page Linking</a>, Mail Id:
         <a href="mailto:samplemail@gmail.com">mailto@edu.com</a><br>
   <hr>
   <h3>Table in HTML</h3>
```

```
    <table border="1">
  <tr>
        <th>Sl No</th>
        <th>Name</th>
        <th>Place</th>
  </tr>
  <tr>
        <td>001</td>
        <td>Name 01</td>
        <td>Kerala</td>
        </tr>
  </tr>
  <tr>
        <td>002</td>
        <td>Name 02</td>
        <td>Tamil Nadu</td>

  </tr>
</table>
   <hr> <h3>Form in HTML</h3>
     <form>
       Enter your name: <input type="text"

       name="txt1"><br><br> Enter your Email Id: <input

       type="mail" name="mail1"><br><br>

       Enter your Phone Number: <input type="number"

       name="mnum"><br><br>  Enter your DOB: <input type="date"

       name="dob"><br><br>

       Describe : <textarea name="txtarea"></textarea><br><br>
       <fieldset>
        <legend>Check those that apply</legend>
        <input type="radio" name="radio" value="1"> Radio button
        <input type="radio" name="radio" value="2" checked> Radio

            button 2 (initially checked)<br>

        <input type="checkbox" name="checkbox"> Checkbox 1
        <input type="checkbox" name="checkbox2" checked> Checkbox 2 (initially
        checked)
       </fieldset>
   </form> <br>
   <hr><h3>Text-level markup</h3>
   <br>
   1. Here we have some <strike>strikethrough</strike> text<br>
   2. Here we have some <sup>superscript</sup> text <br>
   3. Here we have some <sub>superscript</sub> text <br>
   4. Here we have some <big>big</big> text <br>
   5. Here we have some <small>small</small>  text <br>
   6. <font style = "color:red">Red Colored Text</font><br>
   <hr>
```

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

RESULT

The HTML file is executed and verified.

OUTPUT

This is 1st level heading

This is 2nd level heading

This is 3rd level heading

This is 4th level heading

This is 5th level heading

This is 6th level heading

This is a normal paragraph. **The HyperText Markup Language**, or HTML is the markup language for documents designed to be displayed in a **web browser**. It can be assisted by technologies such as *Cascading Style Sheets* and scripting languages such as *JavaScript*.

An Unordered HTML List

- Coffee
- Tea
- Milk

An Ordered HTML List

1. Coffee
2. Tea
3. Milk

Links in HTML

Home Page: External Page Linking, Mail Id: mailto@edu.com

Table in HTML

Sl No	Name	Place
001	Name 01	Kerala
002	Name 02	Tamil Nadu

Form in HTML

Enter your name:

Enter your Email Id:

Enter your Phone Number:

Enter your DOB: dd-mm-yyyy

Describe :

Check those that apply

Radio button Radio button 2 (initially checked)

Checkbox 1 Checkbox 2 (initially checked)

Text-level markup

1. Here we have some ~~strikethrough~~ text
2. Here we have some superscript text
3. Here we have some subscript text
4. Here we have some big text
5. Here we have some small text
6. Red Colored Text

Experiment No : 2
Date : 17-11-2021

LINK

AIM
To create a simple HTML file to demonstrate different linking methods images, tables and also link within a page.

SOURCE CODE
index.html

```
<html>
<head><title>WEBSITE</title>
</head>
<body>
  <a name="Top"></a>
  <img src="mca.jpg" alt="MCA-Banner" width="100%" height="400px">
  <h1><u><center>Master of Computer Applications</center></u> </h1>
    <p align="center"><b>Master of Computer Applications</b> or
    <b>MCA</b> is a professional degree in computer science.
    MCA is a two year long professional post-graduate degree course for students who
    deeply want to learn computer application development.
    The MCA course is a combination of both theoretical and practical knowledge.</p>
 <hr><br>
 <center>
      <a href="table.html">Course Curriculum for MCA</a>     
      <a href="#Ques1">What is MCA</a>     
      <a href="#Ques2">Career Opportunities</a>     
 </center> <br><hr>
    <img src="img2.webp" width="100%" height="300px">
<div>
<h2>Eligibility Criteria for MCA</h2>
      <p>According to AICTE, to pursue an MCA course candidates must have pursued
      <b>BCA/ BSc/ BCom/ BA </b>degree with Mathematics as one of the subjects
      at 10+2 level or at graduation.<br>
```

Minimum marks required: 50% to 60% (a CGPA above 6/10 is considered good) in Bachelor's; 55% and above in Class 12th. Class 10th marks do not matter in most

```
cases.</p>
<hr>
   <a name="Ques1"></a>
   <mark><b>Q. What is MCA or Master of Computer Application?</b><br></mark>
   <p>A. Master of Computer Applications or MCA is a professional degree in computer
   science. MCA is a two year long professional post-graduate degree course for students
   who deeply want to learn computer application development. The MCA course is a
   combination of both theoretical and practical knowledge. With an MCA degree,
   students can learn different tools meant to develop better and faster computer
   applications and software</p><br><br>


   <mark><b>Q. What career opportunities are associated with MCA?</b><br></mark>
   <a name="Ques2"></a>
<p>A. MCA course will give students an understanding about how to develop better
computer applications and software. There are a lot of career opportunities associated with
MCA, and students may have great employment options in top IT firms, MNCs and top
consultancy firms. Candidate with high computer skills are in high demand in the IT
sector. And MCA graduates will also have many opportunities associated with the
government sector. Candidates can crack interviews and get the desired profiles as per
their skills and caliber. Candidates can get jobs in areas such as banking, networking, IT
companies, desktop publishing, and more. Candidates can work on live projects, entry
level programmer and maintaining software/application. Candidate seeking options in the
teaching profession with an MCA degree is also an option. Candidates can apply for the
post of a lecturer in reputed colleges/universities.</p>
<h3><a href="#Top">Click Here to TOP</a></h3>

</body>
</html>
```

table.html

```
<html>
   <title>table</title>
   <body>
     <center>
      <table border="2">
       <tr>
```

```
            <th rowspan=8>Semester 1</th>
          </tr>
           <tr><td>Mathematical FoundationFor Computing</td>
              <tr><td>Digital Fundamentals & Computer Architecture</td></tr>
              <tr><td>Advanced Data Structure</td></tr>
              <tr><td>Advanced Software Engineering</td></tr>
              <tr><td>Python Lab</td></tr>
              <tr><td>Web Programming  Lab</td></tr>
              <tr><td>Data Structure Lab</td></tr>
           </tr>
        </table></center>
    </body>
</html>
```

RESULT

The HTML file is executed and verified.

OUTPUT

index.html

Master of Computer Applications

Master of Computer Applications or **MCA** is a professional degree in computer science. MCA is a two year long professional post-graduate degree course for students who deeply want to learn computer application development. The MCA course is a combination of both theoretical and practical knowledge.

Course Curriculum for MCA What is MCA Career Opportunities

Eligibility Criteria for MCA

According to AICTE, to pursue an MCA course candidates must have pursued **BCA/ BSc/ BCom/ BA** degree with Mathematics as one of the subjects at 10+2 level or at graduation.
Minimum marks required: 50% to 60% (a CGPA above 6/10 is considered good) in Bachelor's; 55% and above in Class 12th. Class 10th marks do not matter in most cases.

Q. What is MCA or Master of Computer Application?

A. Master of Computer Applications or MCA is a professional degree in computer science. MCA is a two year long professional post-graduate degree course for students who deeply want to learn computer application development. The MCA course is a combination of both theoretical and practical knowledge. With an MCA degree, students can learn different tools meant to develop better and faster computer applications and software

Q. What career opportunities are associated with MCA?

A. MCA course will give students an understanding about how to develop better computer applications and software. There are a lot of career opportunities associated with MCA, and students may have great employment options in top IT firms, MNCs and top consultancy firms. Candidate with high computer skills are in high demand in the IT sector. And MCA graduates will also have many opportunities associated with the government sector. Candidates can crack interviews and get the desired profiles as per their skills and caliber. Candidates can get jobs in areas such as banking, networking, IT companies, desktop publishing, and more. Candidates can work on live projects, entry level programmer and maintaining software/application. Candidate seeking options in the teaching profession with an MCA degree is also an option. Candidates can apply for the post of a lecturer in reputed colleges/universities.

Click Here to TOP

table.html

Semester 1	Mathematical FoundationFor Computing
	Digital Fundamentals & Computer Architecture
	Advanced Data Structure
	Advanced Software Engineering
	Python Lab
	Web Programming Lab
	Data Structure Lab

Experiment No : 3
Date: 24-11-2021

FRAMES

AIM

To model a simple HTML file to demonstrate the different types of frames.

SOURCE CODE

Navigation.html

```
<html>
<head>
<title>
Nav</title>
<head/>
<frameset cols=15%,85% style="background-color :#cba43b;">
<frame name="abc" src="link.html">
<frame name="link" >
</frameset>
</html>
```

Link.html

```
<html>
<head>
<title></title>
<style>
table{
width:50%;
height:50%;
}
td{
text-align:left;
padding:14px;
}
th{
text-align:left;
font-style:italic;
padding:14px;
}
a:link{
background-color:white;
color:black;
border:2px solid green;
padding:10px 20px;
text-align:center;
display:inline-block;
text-decoration:none;
}
```

```
a:hover,a:active{
background-color:green;
color:white;
}
</style>
<body>
<a href="page2.html" target="link">MOHANDAS COLLEGE</a><br><br>
<a href="resume.html" target="link">MASTER OF COMPUTER
APPLICATION</a><br><br>
<a href="page1.html" target="link">MASTER OF BUSSINESS
ADMINISTRATION</a><br><br>
</body>
</html>
```

Page1.html

```
<html>
<body>
<center>
   <h2>Floating Frame</h2><br>
<iframe src="https://www.mba.com/" width="800px" height="500px"></iframe>

</center>
</body>
</html>
```

Page2.html

```
<html>

  <head>
    <title>Mixed Frames</title>
  </head>

  <frameset cols = "33.33%,33.33%,33.33%">
    <frame name = "top" src = "https://mcetonline.com/"/>
    <frame name = "main" src = "https://www.cet.ac.in/" />
    <frameset rows = "50%,50%">
      <frame name = "top" src = "https://tkmce.ac.in/" />
      <frame name = "main" src = "https://gectcr.ac.in/ " />
    </frameset>

    <noframes>
      <body>Your browser does not support frames.</body>
    </noframes>

  </frameset>

</html>
```

Page3.html

```
<html>
```

```
<head>
<title>MASTER OF COMPUTER APPLICATION</title>
<style>
table{
width:50%;
height:50%;
}
td{
text-align:left;
padding:14px;
}
th{
text-align:left;
font-style:italic;
padding:14px;
}
a:link{
background-color:white;
color:black;
border:2px solid green;
padding:10px 20px;
text-align:center;
display:inline-block;
text-decoration:none;
}
a:hover,a:active{
background-color:green;
color:white;
}
</style>
</head>
<body style="background-color :#cba43b;">
<center><u><h1 style="color: #000000;">MASTER OF COMPUTER
APPLICATION</h1></u>
<p>Master of Computer Applications (MCA) is a two year professional post-graduate
programme<br> for candidates wanting to delve deeper into the world of computer
application development with the<br> help of learning modern programming language. The
programme is a blend of both theoretical and practical knowledge. <br>An MCA degree
endows students' an opportunity to work with tools meant to develop better and faster
applications.<br>
<a href="page1.html">MASTER OF BUSSINESS ADMINISTRATION</a>

</center>

</body>
</html>
```

mystyle.css

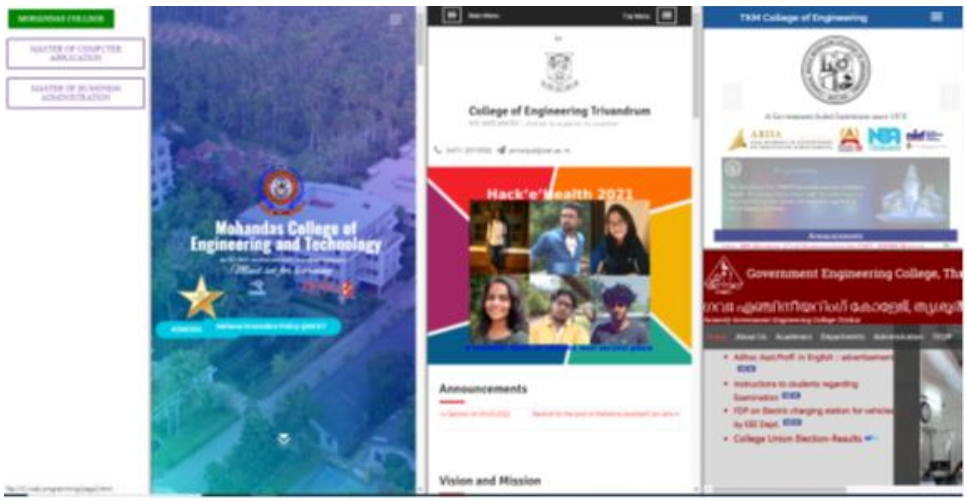
```
body {
  background-color: MediumSeaGreen;
```

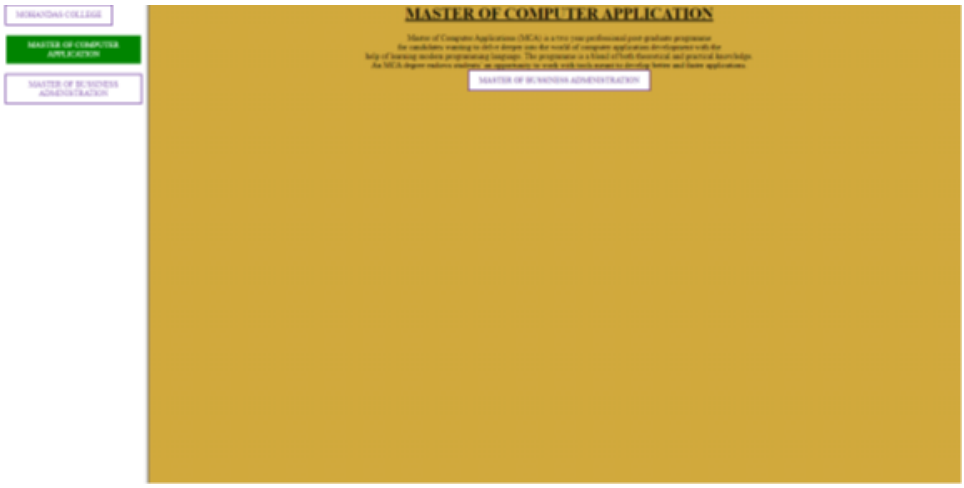
```
}
h1{
font-size:20;
text-align:center;
}

p{
 padding:20px;
 border: 2px solid red;
 border-radius: 10px;
 margin:70px;
 width:210px;
}
ul {
  list-style-type: none;
  margin: 0;
  padding: 0;
}
li{
 display:inline;
}
a.active {
  background-color: #04AA6D;
}
```

RESULT

The program has been executed and the output is verified.

OUTPUT




MASTER OF COMPUTER APPLICATION
MASTER OF BUSINESS ADMINISTRATION


Floating Frame
Launch Your Business Master's or MBA Journey
Learn how you can reach your career goals with a graduate business degree. Explore your business school options, prep and register for exams, and get advice on the admissions process.

Experiment no: 4
Date: 25-11-2021

INTERNAL, EXTERNAL AND INLINE CSS

AIM

To analyze CSS by applying the different styles using inline, external & internal style sheets in a HTML file.

SOURCE CODE

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
   <title>Css-Ext-Int</title>
   <link rel="stylesheet" href="style.css">
   <style>
      .internal{
         color: blueviolet;
         font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
      }
   </style>
</head>
<body>
   <h1 style="color:orchid;">This is styled using inline CSS.</h1>
   <h1 class="internal">This is styled using internal CSS.</h1>
   <h1 id="external">This is styled using external CSS.</h1>
</body>
</html>
```

style.css

```
.external{
   background: magenta;
   font-family: 'Courier New', Courier, monospace;
}
```

RESULT

The HTML file is executed and verified.

OUTPUT

This is styled using inline CSS.

This is styled using internal CSS.

This is styled using external CSS.

Experiment No : 5
Date: 01-12-2021

PREDEFINED FUNCTIONS - JAVASCRIPT STRING AND MATH OBJECT

AIM

Create a HTML page to explain the use of various predefined functions in a string and math object in JavaScript.

SOURCE CODE

```
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>String and Math functions</title>
</head>
<body>
  <div>
    <h2><center><u>FUNCTIONS IN STRING</u></center></h2>
      <center> ENTER THE FIRST STRING:
       <input type="text"

       id="str"><br> ENTER

       THE SECOND

       STRING:

       <input type="text" id="str2"><br>
       NUMBER OF TIMES THE STRING NEED TO BE REPEATED :
       <input type="num" id="repeat"><br>
    <input type="button" value="SUBMIT" onclick="string_func()"></center>
    <br><br>
    <ol id="output" type="1"> </ol>
  </div>
  <div>
    <h2><center><u>FUNCTIONS IN MATH</u></center></h2>
      <center>ENTER ANY NUMBER:<input type="text" id="num"><br>
       POWER TERM:

       <input type="text" id="pow"><br>
    <input type="button" value="SUBMIT" onclick="math_func()"></center>
    <br><br>
    <ol id="output_math" type="1"> </ol>
  </div>
  <script>
```

```
        function string_func() {
          let sentence = document.getElementById('str').value
          let anotherSentence=document.getElementById('str2').value
          let count = document.getElementById('repeat').value
          let li_O = '<li>';
          let li_C='</li>';
let list_items;

list_items = li_O + "String 1 in lowercase letters: "+sentence.toLowerCase()+li_C;
list_items += li_O +"String 1 in uppercase letters: "+sentence.toUpperCase()+li_C;
list_items += li_O +"Length of the String 1: "+sentence.length+

li_C; list_items += li_O +"Character at Position 4:

"+sentence.charAt(4)+ li_C;

list_items += li_O +"Repeat string 1 in "+count+" times: "+sentence.repeat(count)+ li_C;
list_items += li_O +"Last index position of the given String 1: "+sentence.charAt(4)+ li_C;

list_items += li_O +"Concatenates String 1 & String 2: "+sentence.concat('
',anotherSentence)+ li_C;

list_items += li_O +"String sliced from Position 3 to 6:"+sentence.slice(3,6)+ li_C;
          document.getElementById('output').innerHTML = (list_items);

        }

        function math_func() {

        let number = document.getElementById('num').value; let power =
        document.getElementById('pow').value; let li_O = '<li>';

        let li_C = '</li>'; let list_items;

          list_items = li_O + 'Value of PI : ' + Math.PI + li_C;

          list_items += li_O + 'Round of '+number+' is : ' + Math.round(number) + li_C;

          list_items += li_O + "+number+' raise to '+power+' is : ' +
          Math.pow(number,power) + li_C; list_items += li_O + 'Square root of
          '+number+' is : ' + Math.sqrt(number) + li_C;
          list_items += li_O + 'Floor value of '+number+' is : ' + Math.floor(number) + li_C;

          list_items += li_O + 'Sin value of '+number+' is : ' + Math.sin(number* Math.PI / 180)
          + li_C; list_items += li_O + 'Cos value of '+number+' is : ' + Math.cos(number*
          Math.PI / 180) + li_C; list_items += li_O + 'A Random number is : ' + Math.random()
          + li_C;

          document.getElementById('output_math').innerHTML = (list_items);
        }
    </script>
  </body>
</html>
```

RESULT

The html file is executed and output is verified

OUTPUT

FUNCTIONS IN STRING

ENTER THE FIRST STRING: WEB
ENTER THE SECOND STRING: PROGRAMMING
NUMBER OF TIMES THE STRING NEED TO BE REPEATED : 2
SUBMIT

1. String 1 in lowercase letters: web
2. String 1 in uppercase letters: WEB
3. Length of the String 1: 3
4. Character at Position 4:
5. Repeat string 1 in 2 times: WEBWEB
6. Last index position of the given String 1:
7. Concatenates String 1 & String 2: WEB PROGRAMMING
8. String sliced from Position 3 to 6:

FUNCTIONS IN MATH

ENTER ANY NUMBER: 5
POWER TERM: 2
SUBMIT

1. Value of PI : 3.141592653589793
2. Round of 5 is : 5
3. 5 raise to 2 is : 25
4. Square root of 5 is : 2.23606797749979
5. Floor value of 5 is : 5
6. Sin value of 5 is : 0.08715574274765817
7. Cos value of 5 is : 0.9961946980917455
8. A Random number is : 0.3073819955186192

Experiment No : 6
Date : 08-12-2021

SIGN UP FORM VALIDATION – JAVASCRIPT

AIM

Create a HTML registration form and validate the form using JavaScript code.

SOURCE CODE

```
<html>
<head>
  <title>Form Validation</title>

  <script type="text/javascript">
    var divs = new Array();
    divs[0] = "errFirst";
    divs[1] = "errLast";
    divs[2] = "errEmail";
    divs[3] = "errUid";
    divs[4] = "errPassword";
    divs[5] = "errConfirm";
    function validate()
{
      var inputs = new Array();
      inputs[0] = document.getElementById('first').value;
      inputs[1] = document.getElementById('last').value;
      inputs[2] = document.getElementById('email').value;
      inputs[3] = document.getElementById('uid').value;
      inputs[4] = document.getElementById('password').value;
      inputs[5] = document.getElementById('confirm').value;
      var errors = new Array();
      errors[0] = "<span style='color:red'>Please enter your first name!</span>";
      errors[1] = "<span style='color:red'>Please enter your last name!</span>";
      errors[2] = "<span style='color:red'>Please enter your email!</span>";
      errors[3] = "<span style='color:red'>Please enter your user id!</span>";
      errors[4] = "<span style='color:red'>Please enter your password!</span>";
      errors[5] = "<span style='color:red'>Please confirm your password!</span>";
      for (i in inputs)
      {
        var errMessage = errors[i];
        var div = divs[i];
        if (inputs[i] == "")
           document.getElementById(div).innerHTML = errMessage;
        else if (i==2)
        {
          var atpos=inputs[i].indexOf("@");
          var dotpos=inputs[i].lastIndexOf(".");
```

```
        if (atpos<1 || dotpos<atpos+2 || dotpos+2>=inputs[i].length)
          document.getElementById('errEmail').innerHTML = "<span style='color: red'>Enter
a valid email address!</span>";
        else
          document.getElementById(div).innerHTML = "OK!";
       }
       else if (i==5)
       {
        var first = document.getElementById('password').value;
        var second = document.getElementById('confirm').value;
        if (second != first)
          document.getElementById('errConfirm').innerHTML = "<span style='color:
red'>Your passwords don't match!</span>";
        else
                document.getElementById(div).innerHTML = "OK!";
       }
       else
          document.getElementById(div).innerHTML = "OK!";
      }
    }
       function finalValidate()
       {
        var count = 0;
        for(i=0;i<6;i++)
        {
          var div = divs[i];
          if(document.getElementById(div).innerHTML == "OK!")
          count = count + 1;
        }
        if(count == 6)
          document.getElementById("errFinal").innerHTML  = "All the data you entered is
correct!!!";
       }
  </script>
</head>
<body>

   <h1>SIGN UP FORM</h1>
<table id="table1">
     <tr>
       <td>First Name:</td>
       <td><input type="text" id="first" onkeyup="validate();" /></td>
       <td><div id="errFirst"></div></td>
     </tr>
     <tr>
       <td>Last Name:</td>
       <td><input type="text" id="last" onkeyup="validate();"/></td>
       <td><div id="errLast"></div></td>
     </tr>
     <tr>
```

```
      <td>Email:</td>
      <td><input type="text" id="email"  onkeyup="validate();"/></td>
      <td><div id="errEmail"></div></td>
    </tr>
    <tr>
      <td>User Id:</td>
      <td><input type="text" id="uid" onkeyup="validate();"/></td>
      <td><div id="errUid"></div></td>
    </tr>
    <tr>
      <td>Password:</td>
      <td><input type="password" id="password" onkeyup="validate();"/></td>
      <td><div id="errPassword"></div></td>
    </tr>
    <tr>
      <td>Confirm Password:</td>
      <td><input type="password" id="confirm" onkeyup="validate();"/></td>
      <td><div id="errConfirm"></div></td>
    </tr>
    <tr>
      <td><input type="button" id="create" value="Create"
onclick="validate();finalValidate();"/></td>
      <td><div id="errFinal"></div></td>
    </tr>
</table>

</body>
</html>
```

RESULT

The program file has been executed and the output is verified.

OUTPUT

SIGN UP FORM

First Name:	Johnny	OK!
Last Name:		Please enter your last name!
Email:		Please enter your email!
User Id:		Please enter your user id!
Password:		Please enter your password!
Confirm Password:		Please confirm your password!

Create

SIGN UP FORM

First Name:	Johnny	OK!
Last Name:	Depp	OK!
Email:	admin@johnny-depp.org	OK!
User Id:	999	OK!
Password:	•••	OK!
Confirm Password:	•	Your passwords don't match!

Create

SIGN UP FORM

First Name:	Johnny	OK!
Last Name:	Depp	OK!
Email:	admin@johnny-depp.org	OK!
User Id:	999	OK!
Password:	•••	OK!
Confirm Password:	•••	OK!

Create

SIGN UP FORM

First Name:	Johnny	OK!
Last Name:	Depp	OK!
Email:	admin@johnny-depp.org	OK!
User Id:	999	OK!
Password:	•••	OK!
Confirm Password:	•••	OK!

Create All the data you entered is correct!!!

Experiment No : 7
Date : 9-12-2021

JAVASCRIPT EVENT HANDLING

AIM

To create a HTML page to change the background color for every click of a button using JavaScript event handling.

SOURCE CODE

index.html

```
<!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>
     <button id="btn">Click Me</button>
     <script>
       let array1=['#00ff00','#990000','#ff0000','#ff7373','#00ffff',
'#bada55','#800000','#800080','#2d3436', '#fd79a8', '#00cec9', '#00b894', '#fab1a0', '#ffeaa7'];
       console.log("sucess");

       let i=0;
       document.getElementById('btn').addEventListener("click",
       function(){
         i=i; i < array1.length ? ++i : 0;
         document.body.style.background=array1[i];
       })
     </script>
</body>
</html>
```

style.css

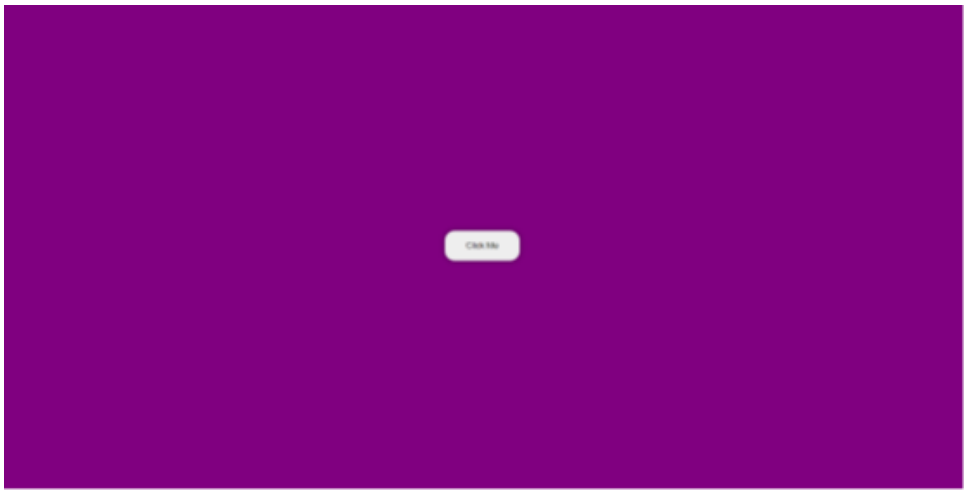
```
body{
  margin:0;
  padding: 0;
  box-sizing: border-box;
  background:#b2bec3;
  font-family: sans-serif;
  display: flex;
  align-items: center;
```

```
  justify-content: center;
  min-height: 100vh;
}

button{
  width: 150px;
  height: 60px;
  border-radius: 20px;
  background: #eee;
  border: none;
  outline: none;
  font-size: 17px;
  transition: 0.5s;
  transition: 0.5s;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.5);
}

button:hover{
  background:#03a1ff;
  color:#fff;
  border-radius: 20px;
  box-shadow: none;
}
```

RESULT

This HTML file has been executed and the output is verified.

OUTPUT


Click Me


Click Me

Experiment No : 8
Date : 15-12-2021

ELECTRICITY BILL

AIM

To Compose an electricity bill from user input based on given tariff using PHP.

SOURCE CODE

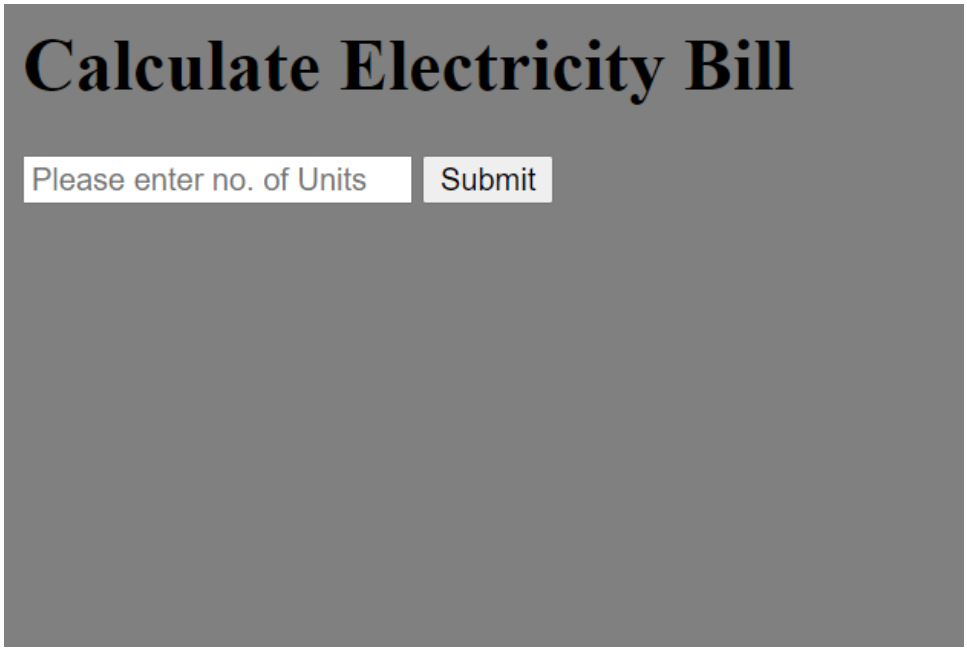
```
<head>
<title>PHP - Calculate Electricity Bill</title>
</head>

<?php
$result_str = $result = '';
if (isset($_POST['unit-submit'])) {
   $units = $_POST['units'];
   if (!empty($units)) {
      $result = calculate_bill($units);
      $result_str = 'Total amount of ' . $units . ' - ' . $result;
   }
}
function calculate_bill($units) {
   $unit_cost_first = 3.50;
   $unit_cost_second = 4.00;
   $unit_cost_third = 5.20;
   $unit_cost_fourth = 6.50;

   if($units <= 50) {
      $bill = $units * $unit_cost_first;
   }
   else if($units > 50 && $units <= 100) {
      $temp = 50 * $unit_cost_first;
      $remaining_units = $units - 50;
      $bill = $temp + ($remaining_units * $unit_cost_second);
   }
   else if($units > 100 && $units <= 200) {
      $temp = (50 * 3.5) + (100 * $unit_cost_second);
      $remaining_units = $units - 150;
      $bill = $temp + ($remaining_units * $unit_cost_third);
   }
   else {
      $temp = (50 * 3.5) + (100 * $unit_cost_second) + (100 * $unit_cost_third);
      $remaining_units = $units - 250;
      $bill = $temp + ($remaining_units * $unit_cost_fourth);
   }
   return number_format((float)$bill, 2, '.', '');
}
```

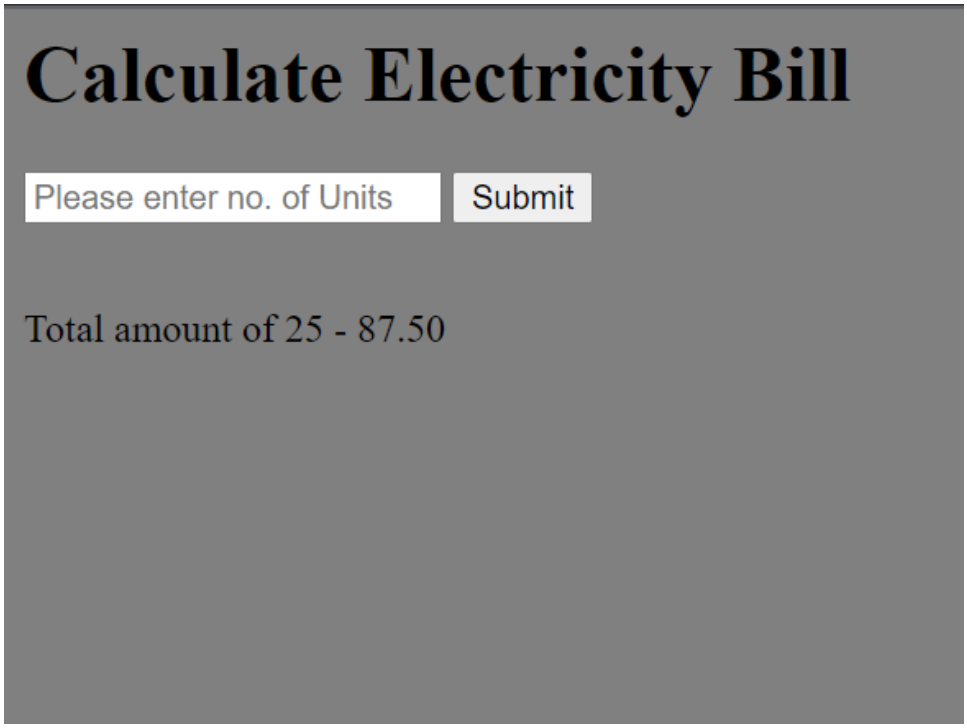
```
?>

<body bgcolor="grey">
<div id="page-wrap">
<h1>Calculate Electricity Bill</h1>

<form action="" method="post" id="quiz-form">
   <input type="number" name="units" id="units" placeholder="Please enter no. of Units" />
   <input type="submit" name="unit-submit" id="unit-submit" value="Submit" />
</form>

<div>
   <?php echo '<br />' . $result_str; ?>
</div>
</div>
</body>
</html>
```

RESULT

The program has been executed and the output is verified.

OUTPUT




Calculate Electricity Bill
Please enter no. of Units
Submit
Total amount of 25 - 87.50

Experiment No : 9
Date : 21-12-2021

BOOK DETAILS

AIM
Develop a web application using PHP to store the book details and view book details.

SOURCE CODE

conn.php

```
<?php
$servername='localhost';
$username='root';
$password='';
$dbname = "library";
$conn=mysqli_connect($servername,$username,$password,$dbname);
if(!$conn){
		die('Could not Connect My Sql:' .mysql_error());
}
else
{
		echo "Database connected";
}
?>
```

main.html

```
<html>
<head>
<title>Homepage</title>
</head>
<body bgcolor="lightblue">
<center><br><br>
<b> Library </b><br><br>

<form method="post" action="insert.html">
<input type="submit" value="Add Book"  name="submit">
</form>

<form method="post" action="view.php">
<input type="submit" value="view  "  name="submit">
</form>

</center>
</body>
```

```
</html>
```

insert.php

```
<html>
<body bgcolor="Yellowgreen">
<form action="main.html"  method="post">
<center>
<br>
<br>
<?php
include_once 'conn.php';
if(isset($_POST['submit']))
{
 $bookid=$_POST['id'];
 $title = $_POST['title'];
$author=$_POST['author'];
$publisher  = $_POST['pub'];
$price=$_POST['price'];
$quantity = $_POST['qty'];
 $sql = "INSERT INTO library (bid,title,author,pname,price,quantity)
VALUES ('$bookid','$title','$author','$publisher','$price','$quantity')";

 if (mysqli_query($conn,  $sql)) {
echo "<br>New Book added !<br>";
 }
else
 {
echo "Error: " . $sql . "" . mysqli_error($conn);
 }
 mysqli_close($conn);
}

?>
<br><br><input type="submit" value="Back to home page"name="submit">
</center>
</body>
</html>
```

insert.html

```
<html>
<head>
  <title>Add details</title>
</head>
<body  bgcolor="cyan">
 <form method="post"action="insert.php">
```

```
<center><br><br>
<b>Add book details<b><br><br>
  <table>
    <tr>
    <td> Bookid:</td>
    <td><input type="text"name="id"></td>
   </tr>
   <tr>
    <td>Title :</td>
    <td><input type="text"name="title"></td>
   </tr>
   <tr>
    <td>Author:</td>
    <td><input type="text"name="author"></td>
   </tr>
   <tr>
    <td>Publisher :</td>
     <td><input type="text"name="pub"></td>
   </tr>
   <tr>
    <td>Price:</td>
    <td><input type="text"name="price"></td>
   </tr>
  <td>Quantity:</td>
    <td><input type="text"name="qty"></td>
   </tr>

   <tr>
    <td><input type="submit" value="submit"name="submit"></td>
   </tr>
  </table>
 </form>
</body>
</html>
```

view.php

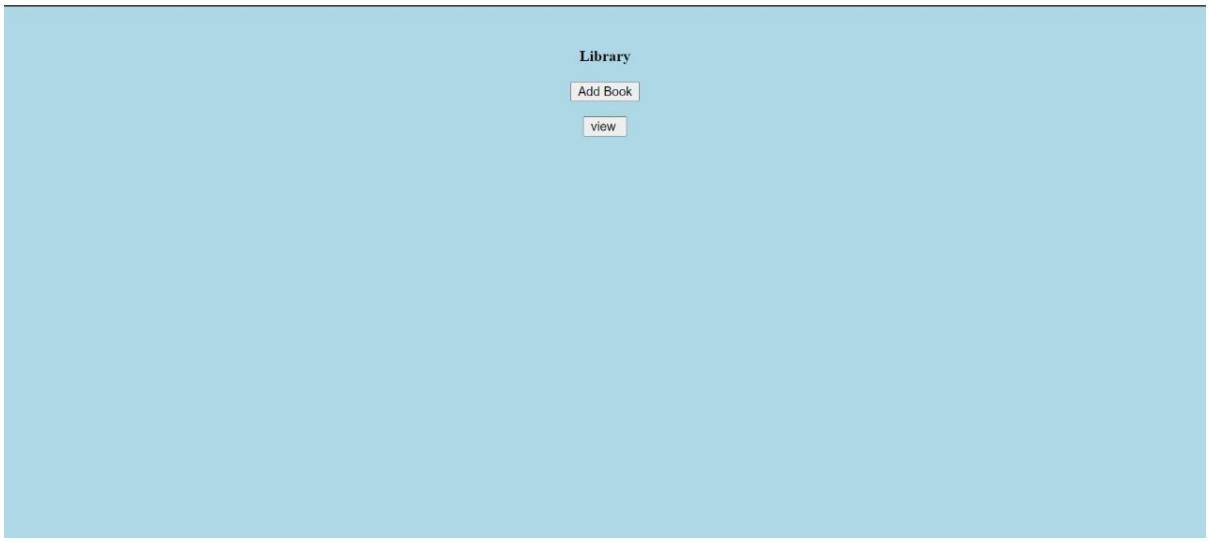
```
<html>
<head>
<title>"View Book"</title>
</head>
<body bgcolor="Lightpink">
<form action="main.html"  method="post">
<center>
<?php
include_once 'conn.php';
```

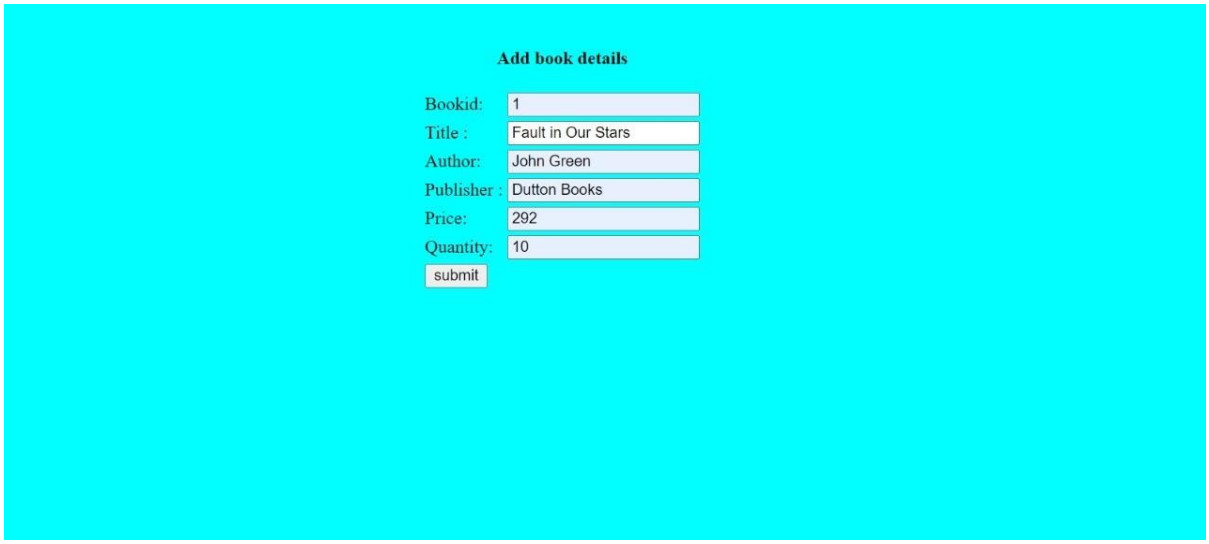
```
$sql = "SELECT * FROM library";
$result=mysqli_query($conn,$sql);
if (mysqli_num_rows($result)  > 0)
{
?>
<br><br>
  <table  border="2">
  <tr>
    <th>Book Id</th>
    <th>Title</th>
    <th>Author</th>
   <th>Publisher</th>
    <th>Price</th>
   <th>Quantity</th>
    </tr>
<?php
$i=0;
while($row = mysqli_fetch_assoc($result))  {
?>
<tr>
 <td><?php echo $row["bid"]; ?></td>
 <td><?php echo $row["title"]; ?></td>
<td><?php echo $row["author"]; ?></td>
<td><?php echo $row["pname"];  ?></td>

    <td><?php echo $row["price"];  ?></td>
<td><?php echo $row["quantity"]; ?></td>
</tr>
<?php
$i++;
}
?>
</table>

          <?php
}
else{
          echo "No result found";}
?>
<br>
<br>
<input type="submit" value="Back to home page"name="submit">
</center>
</form>
 </body>
</html>
```

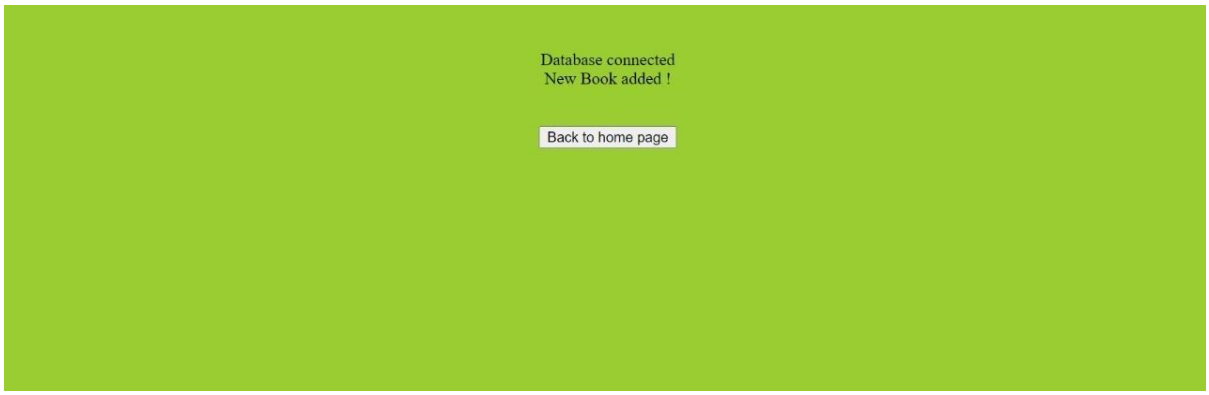
RESULT

The program has been executed and the output is verified.

OUTPUT







Database connected

Book Id	Title	Author	Publisher	Price	Quantity
1	Fault in our stars	John Green	Dutton Books	292	10

Back to home page

Experiment No : 10
Date : 12-01-2022

ONLINE EXAM

AIM
Create a HTML page to show online exam using JavaScript.

SOURCE CODE

quiz.html

```
<html>
<head>
<title>Quiz</title>
<link rel="stylesheet" type="text/css" href="quiz.css">
</head>
<body>
  <div class="card">
        <form>
                <h1 id="quizhead">Online Quiz</h1>
       <hr>
          <div id="ques">
        <b>1.The nucleus of an atom consists of</b>
    </div>

     <div id="option">

                <input type="radio" name="q1" id="q11">

                <label for="q11">electrons and neutrons</label><br>
                <input type="radio" name="q1" id="q12">
                <label for="q12">electrons and protons</label><br>
                <input type="radio" name="q1" id="q13">
                <label for="q13">protons and neutrons</label><br>
                <input type="radio" name="q1" id="q14">
                <label for="q14">None of these</label><br>
    </div>
     <div id="ques">
        <b>The most electronegative element among the following is</b>
    </div>
    <div id="option">
                <input type="radio" name="q2" id="q21">
                <label for="q21">sodium</label><br>
                <input type="radio" name="q2" id="q22">
                <label for="q22">bromine</label><br>
                <input type="radio" name="q2" id="q23">
                <label for="q23">fluorine</label><br>
                <input type="radio" name="q2" id="q24">
                <label for="q24">oxygen</label><br>
```

```
    </div>
    <div id="ques">
        <b>3. The metal used to recover copper from a solution of copper sulphate is </b>
    </div>
    <div id="option">
                <input type="radio" name="q3" id="q31">
                <label for="q31">Na</label><br>
                <input type="radio" name="q3" id="q32">
                <label for="q32">Ag</label><br>
                <input type="radio" name="q3" id="q33">
                <label for="q33">Hg</label><br>
                <input type="radio" name="q3" id="q34">
                <label for="q34">Fe</label><br>
    </div>
  </div>
  <div class="btnbox">
  <button id="btn" onclick="result()">Submit</button>
  <input type="reset" value="Reset" id="btn" class="btnrest">
  </div>
 </form>
  <script src="quiz.js"></script>
 </body>
</html>
```

quiz.css

```
*{
   margin: 0;
   padding: 0;
}

.card{
   width: 60%;
   height: 450px;
   background-color: #e4e7ed;
   margin-left: 20%;
   margin-top: 3%;
}

.btnbox{
   width: 60%;
   margin-left: 28%;
    margin-top: 1%;
}

#quizhead{
   text-align: center;
   padding-top: 3%;;
   color:#2942c2;
}
```

```
#ques{
   padding-left: 5%;
   padding-top: 2%;
   color: #021c4f;

}

#option{
   padding-left: 8%;
   padding-top: 1%;
   color:#2c416b;
}

hr{
   border: 1px dashed #87a9ed;
   margin-top: 1%;
}

#btn{
   width: 30%;
   padding: 10px 24px;
   cursor: pointer;
   margin-left: 2%;
   background:#dae8f7;
   border: none;
   color:#2942c2; }

#btn:hover{
   background:#add0f7;
   color: #041d38;
}
```

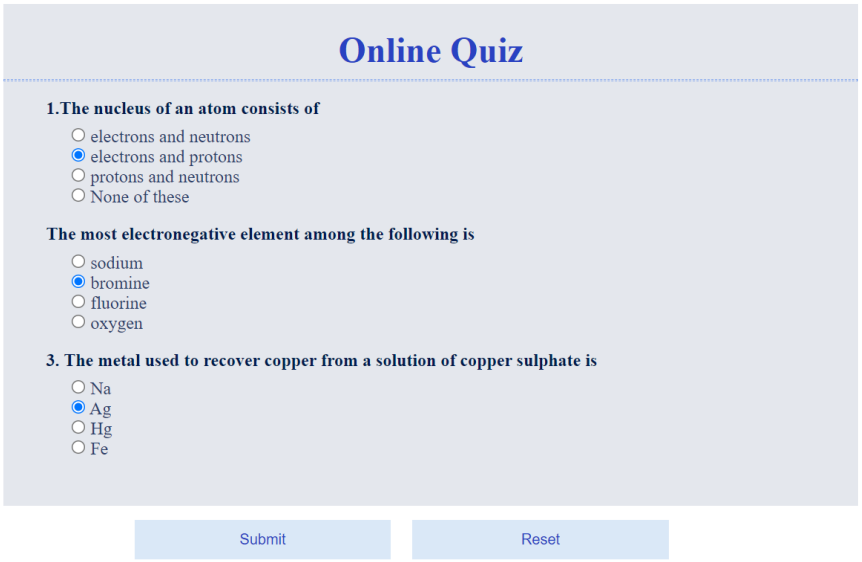
quiz.js

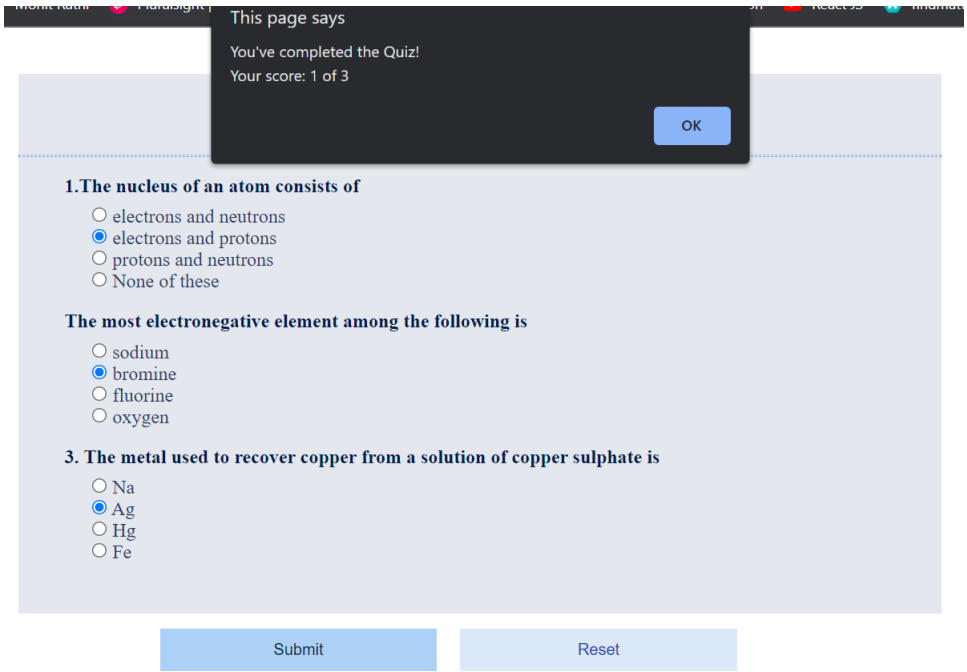
```
function result(){
let score=0
if(document.getElementById('q13').checked){
score+=1
}
if(document.getElementById('q22').checked){
score+=1  }
if(document.getElementById('q31').checked){
score+=1
}
alert("You've completed the Quiz!" + '\n' + "Your score: "+score+" of 3")
}
```

RESULT

The program has been executed and the output is verified.

OUTPUT





Experiment No : 11
Date : 19-01-2022

REGISTRATION FORM VALIDATION - PHP

AIM

To Develop a registration form using PHP and do necessary validations.

SOURCE CODE

form.php

```
<html lang="en">

<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Form Validation</title>
</head>
<style>
   table{
      background-color: white;
      margin-left: auto;
      margin-right: auto;
      margin-top:1em;
      padding:1em;
      box-shadow: 0 4px 10px 0 rgba(0,0,0,0.2), 0 4px 20px 0 rgba(0,0,0,0.19);
   }
   tr,td,th{
      padding:1em;
      text-align: left;
   }
   .center th{
      text-align: center;
   }
   h2{
      text-align: center;
      margin-top: 2em;
      background-color:black;
      color: white;
   }
</style>
<body>
   <h2>FORM VALIDATION</h2>
   <form name="form" action="#" method="POST">
      <table>
         <tr>
            <th>Name</th>
            <td><input type="text" name="fname"> </td>
```

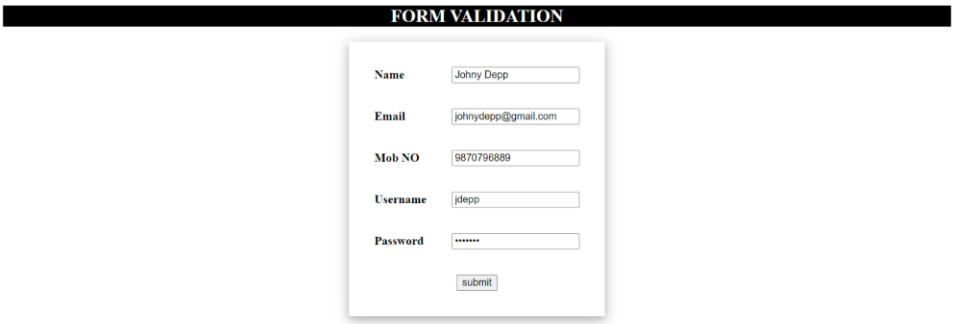
```
        </tr>
        <tr>
          <th>Email</th>
          <td><input type="email" name="email"> </td>
        </tr>
        <tr>
          <th>Mob NO </th>
          <td><input type="tel" name="mob"> </td>
        </tr>
        <tr>
          <th>Username </th>
          <td><input type="text" name="user"> </td>
        </tr>
        <tr>
          <th>Password </th>
          <td><input type="password" name="password"> </td>
        </tr>
        <tr class="center">
          <th colspan="2"><input type="submit" value="submit" name="submit"></th>
        </tr>
      </table>
    </form>
<?php
    $con = Mysqli_Connect("localhost","root","","form");

    if(isset($_POST['submit'])){
      $name = $_POST['fname'];
      $email = $_POST['email'];
      $mobile = $_POST['mob'];
      $user = $_POST['user'];
      $password = $_POST['password'];

      if($_POST['fname'] == ""){
        echo "<script>alert('Enter First Name !!')</script>";
      }
      else if(!preg_match("/^[a-zA-Z ]*$/",$name)){
        echo "<script>alert('Enter Your Name !!')</script>";
      }
      else if($_POST['email'] == ""){
        echo "<script>alert('Enter Email !!')</script>";
      }
      else if(!preg_match('/^[0-9]{10}+$/', $_POST['mob'])){
        echo "<script>alert('Enter Valid Mobile Number !!')</script>";
      }
      else if($_POST['user'] == ""){
        echo "<script>alert('Enter User Name !!')</script>";
      }
      else if($_POST['password'] == ""){
        echo "<script>alert('Enter Password !!')</script>";
      }
```

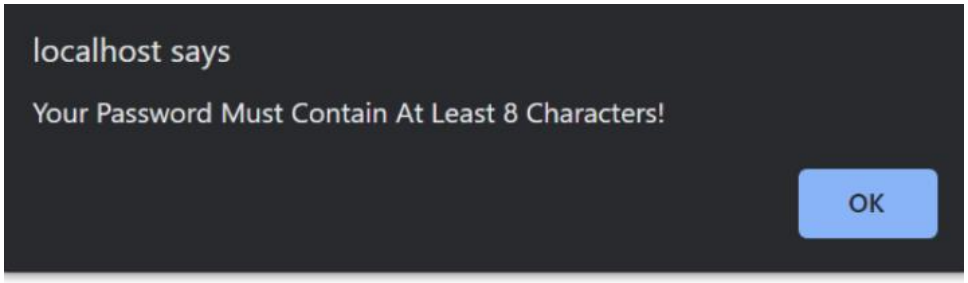
```
        else if (strlen($_POST["password"]) < 8) {
                echo "<script>alert('Your Password Must Contain At Least 8
Characters!')</script>";
        }
        else if(!preg_match("#[0-9]+#",$password)) {
                echo "<script>alert('Your Password Must Contain At Least 1 Number!')</script>";
         }
        else if(!preg_match("#[A-Z]+#",$password)) {
                echo "<script>alert('Your Password Must Contain At Least 1 Capital
Letter!')</script>";
        }
        else if(!preg_match("#[a-z]+#",$password)) {
                echo "<script>alert('Your Password Must Contain At Least 1 Lowercase
Letter!')</script>";
        }
        else{

            $query = "insert into form values('$name','$email','$mobile','$password','$user')";
            if(mysqli_query($con,$query)){
                echo "success";
            }
            else{
                echo "error".$query.mysqli_error($con);
            }
    }
    }
?>

</body>
</html>
```

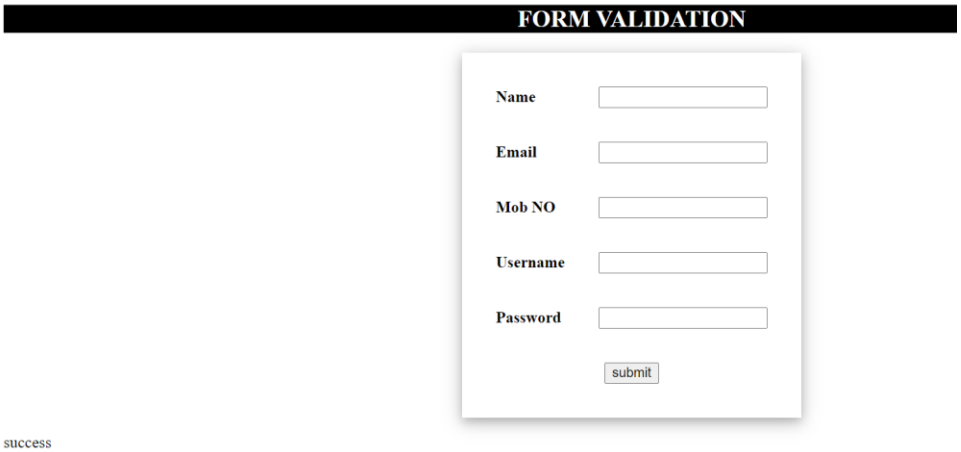
RESULT

The program has been executed and the output is verified.

OUTPUT







success

Experiment No : 12
Date : 02-02-2022

ASORT & ARSORT FUNCTIONS

AIM

PHP code to store name of students in an array and display it using print_r function. Sort and Display the same using asort & arsort functions.

SOURCE CODE

asort.php

```
<?php

$students = array("Joey Tribbiani", "Rachel Green", "Monica Gellerr", "Chandler Bing",
"Phoebe Buffay", "Ross Geller", "Janice Hosenstein");
echo "<b>Normal Array : </b><br>";
print_r($students);
echo "<br><br> <b>Ascending Sort : </b><br>";
asort($students);
print_r($students);
echo "<br><br> <b>Descending Sort : </b><br>";
arsort($students);
print_r($students);

?>
```

RESULT

The program has been executed and the output is verified.

OUTPUT

Normal Array :
Array ([0] => Ross [1] => Rachel [2] => Monica [3] => Phoebe [4] => Chandler [5] => Joey [6] => Janice [7] => Gunther)

Ascending Sort :
Array ([4] => Chandler [7] => Gunther [6] => Janice [5] => Joey [2] => Monica [3] => Phoebe [1] => Rachel [0] => Ross)

Descending Sort :
Array ([0] => Ross [1] => Rachel [3] => Phoebe [2] => Monica [5] => Joey [6] => Janice [7] => Gunther [4] => Chandler)

Experiment No : 13
Date : 02-02-2022

CRICKET PLAYER'S LIST

AIM

PHP code to store name of Indian Cricket players in an array and display the same in HTML table.

SOURCE CODE

player.html

```
<html>
<body>
<form action="cricket-player.php" method="post">
   <h3>Enter the name of cricket Player</h3>
   <textarea name="players" rows="10" cols="50"
placeholder="Eg:Sachin,Dhoni"></textarea><br>
   <input type="submit">
</form>
</body>
</html>
```

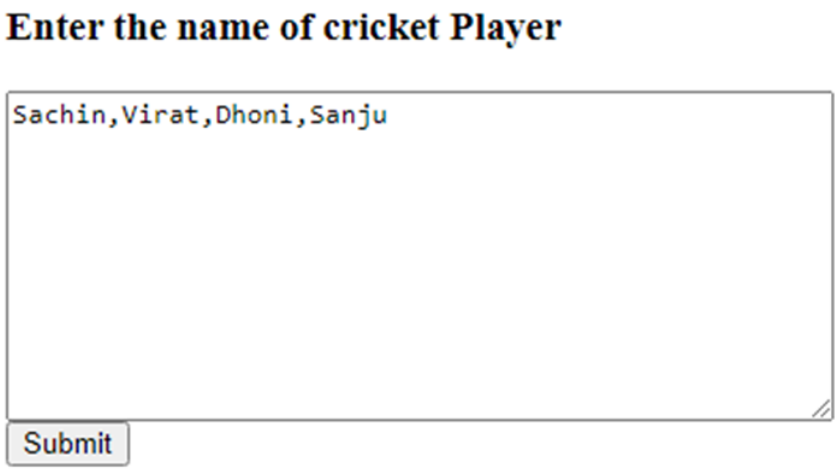
cricket-player.html

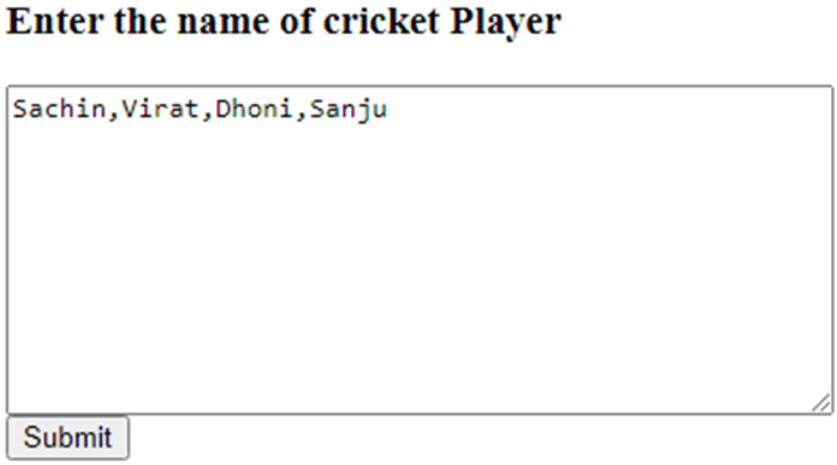
```
<?php
$names = $_POST['players'];
$players = explode(",",$names);
echo "<table border='1'>";
echo "<tr><th>Players</th></tr>";
for($i=0;$i<count($players);$i++)
{
   echo "<tr><td>".$players[$i]."</td></tr>";
}
echo "</table>";
?>
```

RESULT

The program has been executed and the output is verified.

OUTPUT


Enter the name of cricket Player
Sachin,Virat,Dhoni,Sanju
Submit


Enter the name of cricket Player
Sachin,Virat,Dhoni,Sanju
Submit