BASIC HTML TAGS

AIM

To create a simple html file to demonstrate the use of different tags such as heading tags <h1>…<h6>, <p>, <br>, <b>, <u>, <i>, <align> tag with <p> tag/ heading tags, <bgcolor> with <body> tag, <marquee> tag, <a> tag and <img> tag.

SOURCE CODE

```
<!DOCTYPE html>
<html>
      <head>
         <title>Html tags</title>
      </head>
      <body bgcolor="yellow">
               <h1>This is the h1 tag</h1>
               <h2>This is the h2 tag</h2>
               <h3>This is the h3 tag</h3>
               <h4>This is the h4 tag</h4>
               <h5>This is the h5 tag</h5>
               <h6>This is the h6 tag</h6>
               <img src="images.png" align="center" height="200" width="200"/>
               <p align="center"><b>HTML</b> stands for <b><u>Hyper Text Markup
                 Language</u></b><br>
                 It is standard language for creating <b><i>Web pages</i></b>
               </p>
               <marquee>The Basic HTML tags(Marquee)</marquee>
               <a href="https://www.google.com/ "/>Link to a Browser</a>
      </body>
</html>
```

RESULT

The HTML page to demonstrate basic HTML tags has been designed.

Experiment No : 2   **Date : 26/09/2024**

HTML LISTS

AIM

Create a web page which contains notes on lists in HTML (ordered and unordered).

SOURCE CODE

```
<!DOCTYPE html>
<html>
    <head>
        <title> HTML lists</title>
    </head>
    <body>
        <h1>Ordered List</h1>
        <ol type="1">
            <li>Data Structures</li>
            <li>Data Science</li>
            <li>Machine learning</li>
            <li>IOT</li>
        </ol>
        <h1>Unordered List</h1>
        <ul type="circle">
            <li>C</li>
            <li>Python </li>
            <li> Java</li>
            <li>Ruby</li>
        </ul>
    </body>
</html>
```

RESULT

The HTML page to demonstrate basic HTML Lists has been designed.

Experiment No : 3   **Date : 26/09/2024**

HTML PAGE WITH IMAGES AND TABLES

AIM

Create a static webpage for your college with the following information:

a) Name of college (First level heading, text align = center, color = blue, use style attribute)

b) Add vision and mission of the college as scrolling text (color = green)

c) About us (Second level heading, background-color = red, color = white, use style attribute)

     i.   Insert an image of your college.

     (Align image in center, width = 1000px, height = 300px)

     ii. Add a brief description about your college. (justified paragraph)

d) Courses Offered (Second level heading, background-color = red, color = white, use style attribute)

     i. Add a brief description about courses offered. (justified paragraph)

     Add course details (Use HTML table)

     ii. Contact us. (Second level heading, background-color = red, color = white)

     Address for Communication (Third level heading, color = blue)

     Address of the college

     Add Link to the official website of the college.

SOURCE CODE

```
<!DOCTYPE html>
<html>
    <head>
        <title>RIT Kottayam</title>
    </head>
    <body>
        <h1 style="color:blue; text-align:center">RAJIV GANDHI INSTITUTE OF
        TECHNOLOGY</h1>
        <marquee style="color:green">Being centre of Technological excellence for
        the betterment of the society</marquee>
        <h2 style="color:white;background-color:red">About Us</h2>
```

<p> Rajiv gandhi Institute of technology is named after the late Prime minister Sri Rajiv Gandhi , run by the Government of kerala, started functioning in 1991.

It has established a vast infrastructure and put together a team of dedicated teachers. the institution has became the one of gthe leading technicval institutes in keralla</p>

<img src="/home/web/ShreyasWeb/college.jpg" alt=" Rajiv gandhi Institute of technology" width:"500px" height="300px">

<h2 style="color:white; background-color:red;">Course Offered</h2>

<p> All courses offered by RIT are affiliated to APJ Abdul Kalam Technological University and approved by the All India Council for Technical Education (AICTE). The B. Tech programmes are of 8 semester (4 year) duration. The B. Arch programme is of 10 semester (5 year) duration. The M. Tech programmes are of 4 semester (2 year) duration, and the MCA programme is of 4 semester (2 year) duration.</p>

<table border="2">

    <tr>

        <th colspan="3">UG</th>

    </tr>

    <tr>

        <th>COURSE</th>

        <th>DEPARTMENT</th>

        <th>INTAKE</th>

    </tr>

    <tr>

        <td rowspan=5>B Tech </td>

        <td>Civil Engineering</td>

        <td>66</td>

    </tr>

    <tr>

        <td>Mechanical Engineering</td>

        <td>66</td>

    </tr>

    <tr>

        <td>EEE</td>

        <td>66</td>

```
                    </tr>
                     <tr>
                            </tr<td>Electronics and communication Engineering</td>
                            <td>66</td>
                    </tr>
                    <tr>
                            <td>Computer science Engineering</td>
                    <td>66</td>>
                    <tr>
                            <td>B Arch</td>
                            <td>Architecture</td>
                            <td>50</td>
                    </tr>
            </table>
            <h2 style="color:white;background-color:red">Contact us</h2>
            <h3>Address for communicatiion</h3>
            <address>Velloor PO Pampady Kottayam
            - 686501 Kerala State</address>
            <h3>Official page:</h3>
            <a href="rit.ac.in">Click here</a>
        </body>
</html>
```

RESULT

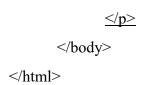The HTML page to demonstrate College Webpage has been designed.

HTML PAGE WITH HYPERLINKS

AIM

Create an attractive webpage showing the images and description of at least three festivals in India. Set width and height of the images as 500px and 700px respectively. When an image of a festival is clicked, user must redirect to another webpage showing details of that festival. The new webpage should be opened in another tab.

SOURCE CODE

Festivals.htnl

```
<!DOCTYPE html>
<html>
    <head>
        <title>Indian Festivals</title>
    </head>
    <body>
        <h1 align="center"><b><u>Indian Festivals</u></b></h1>
        <br>
        <h1>Diwali</h1>
        <a href="diwali.html" target="_blank">
        <img     src="/home/web/ShreyasWeb/diwali.jpeg"     width="500px" height="500px">
        </a><br>
        <h1>Eid</h1>
        <a href="eid.html" target="_blank">
        <img     src="/home/web/ShreyasWeb/eid.jpeg"     width="500px" height="500px"><br>
        </a>
        <h1>Christmas</h1>
        <a href="christmas.html" target="_blank">
        <img     src="/home/web/ShreyasWeb/christmas.jpg"     width="500px" height="500px">
        </a>
    </body>
```

```
        </html>
```

Diwali.html

```
<html>

    <head></head>

    <body>

        <h1>DIWALI</h1>

        <img    src="/home/web/ShreyasWeb/diwali.jpeg"    width="500px"
        height="500px">

        <p>Diwali is also known as deepavali a significant festivaL celebrated
        acr9oss india......

        </p>

    </body>

</html>
```

Eid.html

```
<html>

    <head>

    <body>

        <h1>EID</h1>

        <img    src="/home/web/ShreyasWeb/eid.jpeg"    width="500px"
        height="500px">

        <p>Eid is asignificant festival in Islam making the end of Ramdan,holy
        month of fasting......

        </p>

    </body>

</html>
```

Christmas.html

```
<html>

    <head>

    <body>

        <h1>CHRISTMAS</h1>

        <img    src="/home/web/ShreyasWeb/christmas.jpg"    width="500px"
        height="500px">

        <p>Christmas is a significant festival celebrerated on December 25th to
        commerate the birth of Jesus christ..
```

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

RESULT

The HTML page to demonstrate basic HTML HyperLinks has been designed.

Experiment No : 5   **Date : 03/10/2024**

HTML PAGE WITH FRAMES

AIM

Using HTML Iframes create a webpage with two frames. One frame contains list of items as hyperlinks - Fruits, Vegetables, Flowers and Trees. When an item is selected, details and images of the selected item should be displayed on right frame.

SOURCE CODE

Frames.html

```
<!DOCTYPE html>

<html>

        <head>

        <title>Frames</title>

        <body>

                <iframe src=Lframe.html width=600 height=400>

                </iframe>

                <iframe name="rframe" width=600 height=400>

                </iframe>

        </body>

</html>
```

Lframe.html

```
<html>

        <head>

        <title>items</title>

        </head>

        <body>

                <h1>List of Items</h1>

                <a href="fruits.html" target="rframe">FRUITS</a><br>

                <a href="vegetables.html" target="rframe">VEGETABLES</a><br>

                <a href="flowers.html" target="rframe">FLOWERS</a><br>

                <a href="trees.html" target="rframe">TREES</a><br>

        </body>

</html>
```

Fruits.html

```html
<html>
        <head></head>
        <body>
                <h1>Fruits</h1>
                <img src="fruits.jpeg" alt="Fruits">
        </body>
</html>
```

Vegetables.html

```html
<html>
        <head></head>
        <body>
                <h1>Vegetables</h1>
                <img src="vegetables.jpeg" alt="Vegetables">
        </body>
</html>
```

Flowers.html

```html
<html>
        <head></head>
        <body>
                <h1>Flowers</h1>
                <img src="flowers.jpeg" alt="Flowers">
        </body>
</html>
```

Trees.html

```html
<html>
        <head></head>
        <body>
                <h1>Trees</h1>
                <img src="trees.jpeg" alt="trees">
        </body>
</html>
```

RESULT

The HTML page to demonstrate basic HTML iframes has been designed.

HTML FORMS

AIM

Create a Student Registration Form

SOURCE CODE

```html
<!DOCTYPE html>
<html>
  <head>
    <title>form</title>
  </head>
  <body>
    <h2 align="center">STUDENT REGISTRATION FORM</h2>
    <form id="form" onsubmit="return validateForm()">
    <table border="2">
    <tr>
        <td>FIRST NAME:</td>
        <td><input type="text" id="fname" name="fname" maxlength="30">(max 30 characters)
        <span id="firstNameError" class="error"></span>
        </td>
    </tr>
    <tr>
        <td>LAST NAME:</td>
        <td><input type="text" id="lname" name="lname" maxlength="30">(max 30 characters)
        <span id="lastNameError" class="error"></span>
        </td>
    </tr>
    <tr>
        <td>DATE OF BIRTH:</td>
        <td>
        <select >
```

```html
            <option> Day</option>
            <option> 1</option>
            <option> 27</option>
            <option> 30</option>
            <option> 31</option>
            </select>
            <select >
            <option> Month</option>
            <option> January</option>
            <option> December</option>
            </select>
            <select>
            <option> Year</option>
            <option> 1992</option>
            <option> ….</option>
            <option>2011</option>
            <option>2012</option>
            </select></td>
    </tr>
    <tr>
            <td>E MAIL ID:</td>
            <td><input type="email" id="email" name="email">
            <span id="emailError" class="error"></span>
            </td>
    </tr>
    <tr>
            <td>MOBILE NUMBER:</td>
            <td><input type="tel" id="mobile" name="mobile" maxlength="10">
            <span id="mobileError" class="error"></span>
            </td>
    </tr>
    <tr>
```

```html
        <td>GENDER</td>
        <td><input type="radio" name="gender" value="male">Male
        <input type="radio" name="gender" value="female">Female</td>
</tr>
<tr>
        <td>ADDRESS</td>
        <td><textarea name="address" rows="3"></textarea></td>
</tr>
<tr>
        <td>CITY:</td>
        <td><input type="text",name="city"></td>
</tr>
<tr>
        <td>PIN code:</td>
        <td><input type="text",name="pin" maxlength="6"></td>
</tr>
<tr>
        <td>STATE:</td>
        <td><input type="text",name="state"></td>
</tr>
<tr>
        <td>COUNTRY:</td>
        <td><select name="country">
        <option value="India">INDIA</option>
         <option value="Dubai">USA</option>
         <option value="Other">OTHER </option>
         </select>  </td>
</tr>
<tr>
        <td>HOBBIES:</td>
        <td><input type="checkbox" name="hobbies" value="drawing">Drawing
        <input type="checkbox" name="hobbies" value="singing">singing
```

```
<input type="checkbox" name="hobbies" value="dancing">dancing

<input type="checkbox" name="hobbies" value="sketching">sketching
<br>

<input type="checkbox" name="hobbies" value="others">Others   <input
type ="text"></td>

</tr>

<tr>

<td>QUALIFICATION:</td>

<td>

        <table>

        <tr>

        <th>SI NO.</th>

        <th>Examination</th>

        <th>Board</th>

        <th>Percentage</th>

        <th>Year of Passing</th>

        </tr>

        <tr>

        <td>1.</td>

        <td>Class X</td>

        <td><input type="text" name="board10"></td>

        <td><input type="text" name="percent10"></td>

        <td><input type="text" name="year10"></td>

        </tr>

        <tr>

        <td>2.</td>

        <td>Class XII</td>

        <td><input type="text" name="board12"></td>

        <td><input type="text" name="percent12"></td>

        <td><input type="text" name="year12"></td>

        </tr>

        <tr>

        <td>3.</td>
```

```html
        <td>Graduation</td>
        <td><input type="text" name="boardgrad"></td>
        <td><input type="text" name="percentgrad"></td>
        <td><input type="text" name="yeargrad"></td>
        </tr>
        <tr>
        <td>4.</td>
        <td>Masters</td>
        <td><input type="text" name="boardm"></td>
        <td><input type="text" name="percentm"></td>
        <td><input type="text" name="yearm"></td>
        </tr>
        </table>
</td>
</tr>
<tr>
        <td>COURSE APPLIED FOR:</td>
        <td>
        <input type="radio" name="course" value="MCA">MCA
        <input type="radio" name="course" value="mtech">M.TECH
        <input type="radio" name="course" value="msc">M.Sc
        <input type="radio" name="course" value="phd">Ph.D
        </td>
</tr>
<tr>
        <td>TYPE YOUR PASSWORD:</td>
        <td><input type="password",name="pswd"></td>
</tr>
<tr>
        <td>UPLOAD YOUR PHOTO:</td>
        <td><input type="file",name="photo"></td>
</tr>
```

```
            <td>DATE OF TC:</td>

            <td><input type="date",name="tcdate"></td>

    <tr>

            <td colspan="2" align="center">

            <button type="submit">Submit</button>

            <button type="reset">Reset</button>

            </td>

    </tr>

    </table>

    </form>

  </body>

</html>
```

RESULT

The HTML page to demonstrate basic HTML Form has been designed.

HTML PAGE WITH INTERNAL STYLESHEET

AIM

Using Internal style sheets, create a web page showing your biodata, with the following styles:

a. Put your Name in <h1> tag, center aligned.

b. Add following via <h2> tags, Personal Details, Educational Details, Hobbies. Put the respective contents below, in list format.

c. Add contact details at the bottom including mail id and mobile number.

d. Style all <h1> tags as red colored and center aligned and all <h2> tags as white colored with background color blue.

e. Display <p> elements with a border

f. Change the background color of the page to yellow.

SOURCE CODE

```
<!DOCTYPE html>
<html>
    <head>
        <title>Biodata</title>
        <style>
            body
            {
            background-color:yellow;
            }
            h1{
            color:red;
            text-align:center;
            }
            h2{
            color:white;
            background-color:blue;
            padding:10px;
            }
```

```css
                    ul{
                      list-style-type:circle;
                      margin-left:20px
                      }
                       p{
                      border:1px;
                      padding:10px;
                      }
                      .contact{
                      margin-top:20px;
                      padding:10px;
                      border:2px;
                      }
                  </style>
          </head>
          <body>
                <h1>Shreyas S</h1>
                <h2>Personal Details</h2>
                <ul>
                        <li>Date of Birth: 28 August 2000</li>
                        <li>Gender: Male</li>
                        <li>Nationality: Indian</li>
                </ul>
                <h2>Educational Qualification</h2>
                <ul>
                        <li>Master of Computer Application- RIT</li>
                        <li>Bsc Computer Science- Calicut University</li>
                        <li>High School</li>
                </ul>
                <h2>Hobbies</h2>
                <ul>
                        <li>Coding</li>
```

```
                <li>Reading</li>
                <li>Drawing</li>
        </ul>
        <div class="contact" border=2px>
        <h2>Contact Details</h2>
        <p>E mail: shrs@gmail.com<br>
        Mobile: 234569121</p>
        </div>
    </body>
</html>
```

RESULT

The HTML page to demonstrate the Internal style sheets has been designed.

Experiment No : 8   **Date : 17/10/2024**

HTML PAGE WITH EXTERNAL STYLESHEET

AIM

Using External Style Sheets, create a web page with following styles:

a. Create different paragraphs defining different selectors in CSS. Each paragraph should be defined with appropriate labels for making styles of each selector.

b. Style each selector with unique font color, and background color.

SOURCE CODE

Selectors.html

```html
<!DOCTYPE html>
<html>
    <head>
    <title>CSS Selectors</title>
    <link rel="stylesheet" href="ext.css">
    </head>
    <body>
        <h1>CSS SELECTORS</h1>
        <p id="para1">This is a paragragh styled using the ID selector</p>
        <p class="para2">This is a paragragh styled using the class selector</p>
        <p>This is a paragragh styled using the element selector</p>
    </body>
</html>
```

External.css

```css
#para1{
    color:white;
    background-color:green;
    padding:10px;
    font-size:20px;
    }
.para2{
    color:red;
```

```
        background-color:lightblue;

        padding:10px;

        font-size:18px;

        }

    p{

        color:blue;

        background-color:yellow;

        padding:10px;

        font-size:16px;

        }
```

RESULT

The HTML page to demonstrate the External style sheets has been designed.

HTML PAGE WITH STRIPPED TABLE USING CSS

AIM

Create a stripped table using CSS.

a) Use Id attribute of the table as CSS Selector.

b) Table header must have 20px top and bottom padding, left text align, white text color, background color as #b22222, 1px solid grey color top, bottom, left and right borders.

c) Each table data/cell must have 8px padding on four sides.

d) Each table data/cell must have 1px solid grey color top, bottom, left and right borders.

e) Table borders should be collapsed into a single border.

f) Table width should be 100% of the document body and use sans-serif font family.

g) Highlight table rows on mouse over by setting 'burlywood' background color.

h) Add background-color #f2f2f2 to all even table rows.

SOURCE CODE

```
<!DOCTYPE html>
<html>
     <head>
          <title>striped</title>
          <link rel="stylesheet" href="table.css">
     </head>
     <body>
          <table id="striped" border="2">
               <tr>
                    <th>SI NO</th>
                    <th>ADMISSION</th>
                    <th>NAME</th>
                    <th>EMAIL</th>
               </tr>
               <tr>
                    <td>1</td>
                    <td>mp2134</td>
```

```html
                <td>Ajith</td>
                <td>ajith@gmail.com</td>
        </tr>
        <tr>
                <td>2</td>
                <td>mp2135</td>
                <td>Malavika</td>
                <td>malavika@gmail.com</td>
        </tr>
        <tr>
                <td>3</td>
                <td>mp2136</td>
                <td>Uthara R</td>
                <td>uthara@gmail.com</td>
        </tr>
        <tr>
                <td>4</td>
                <td>mp2137</td>
                <td>Amar</td>
                <td>amar@gmail.com</td>
        </tr>
        <tr>
                <td>5</td>
                <td>mp2138</td>
                <td>Abdul</td>
                <td>abdul@gmail.com</td>
        </tr>
    </table>
</body>
</html>
```

Table.css

```css
#striped{
      width:100%;
    border-collapse:collapse;
     font-family: sans-serif;
     }
#striped th{
     padding:20px 0;
     text-align:left;
     color:white;
     background-color:#b22222;
     border:1px solid black;
     }
#striped td{
     padding:8px;
     border:1px solid black;
     }
#striped tr:nth-child(even){
     background-color:#f2f2f2;
     }
#striped tr:hover{
     background-color:burlywood;
     }
```

RESULT

The HTML page to demonstrate stripped table using CSS has been designed.

Experiment No : 10   **Date : 17/10/2024**

HTML PAGE WITH IMAGE ALIGNED USING CSS

AIM

Create a webpage with a center aligned Image using CSS.

[Hint] To center the image in the document body, use display and margin CSS properties.

SOURCE CODE

```
<!DOCTYPE html>
<html>
     <head>
          <style>
               .centered{
                    display:block;
                    margin:0 auto;
                    width:40%;
                    height:50%;
                    }
               h2  {
                    color:white;
                    background-color:red;
                    padding:4px;
                    }
          </style>
     <body>
          <h2>Centered Image</h2>
          <img class="centered" src="earth.jpeg" alt="Earth">
          <h2>Earth</h2>
     </body>
</html>
```

RESULT

The HTML page to demonstrate center aligned image using CSS has designed.

Experiment No : 11   **Date : 24/10/2024**

HTML PAGE WITH NAVIGATION BAR USING CSS

AIM

Create a fixed full size side navigation bar using CSS.

a) Create a div tag with class name 'sidenav' and hyperlinks – About us, Departments, Vision and Mission and Contact us.

b) Create a div with class name 'main' and h1 tag for heading 'side bar example'.

c) CSS for anchor tag

       - Set as Block element.

       - Text decoration none

       - Top, right, bottom, left padding 6px, 8px, 6px and 16px respectively.

       - Text color white.

d) CSS for side nav div tag

       -Height stretches full document height.

       - Width 160px, Padding top 20px.

       - Background color green.

       - Use position, top, left properties to create a fixed full size

        side navigation bar on top left corner.

       - Highlight menus on mouse over by setting 'red' Text color.

e) CSS for main div tag

       - Left margin should be same as the width of the sidenav div.

       - Top and bottom paddings are 0px

       - Right and left paddings are 10px

       - Set 2000px as height

SOURCE CODE

```
<!DOCTYPE html>
<html>
    <head>
        <style>
            body{
            font-family:"lato",sans-serif;}
```

```css
.sidenav{
height:100%;
width:160px;
padding-top:20px;
background-color:green;
position:fixed;
top:0;
left:0;
}
.sidenav a:hover{
color:red;
}
.sidenav a{
display:block;
text-decoration:none;
padding:6px 8px 6px 16px;
color:white;
}
.main{
margin-left:160px;
padding:0px 10px 0px 10px;
height:200px;
}
</style>
</head>
<body>
    <div class="sidenav">
    <a href="#about">About US</a>
    <a href="#department">Department</a>
    <a href="#vision">Vision</a>
    <a href="#mission">Mission</a>
    <a href="#contact">Contact Us</a>
```

```
            </div>
            <div class="main">
            <h1>Side bar Example</h1>
            </div>
        </body>
</html>
```

RESULT

The HTML page to demonstrate Navigation Bar using CSS has been designed.

Experiment No : 12   **Date : 24/10/2024**

CHANGE BACKGROUND COLOUR OF WEBPAGE USING JAVASCRIPT

AIM

Develop a web application using JavaScript to change the background color of the webpage when the following events of the button "change background color" occur. [Hint: use addEventListener Method]

      a. Double click – background color changed to green.

      b. Single click – background color changed to red.

SOURCE CODE

```
<!DOCTYPE html>
<html>
      <head>
      <title>Background color</title>
      </head>
      <body>
            <h1 align='center'>Change Background color</h1><br>
            <button id="colorButton" align='center'>Change the background color</button>
            <script>
            var button = document.getElementById('colorButton');
            button.addEventListener('click',function()
            {
             document.body.style.backgroundColor = 'red';
             });
             button.addEventListener('dblclick',function()
             {
              document.body.style.backgroundColor = 'green';
              });
              </script>
        </body>
</html>
```

RESULT

The HTML page to demonstrate background color change using JavaScript has been designed.

Experiment No : 13   **Date : 24/10/2024**

CHANGE IMAGES IN WEBPAGE USING JAVASCRIPT

AIM

Create a web application using JavaScript to turn on / off the given light bulb. Hints: change the 'src' attribute of the image tag when clicking buttons.

SOURCE CODE

```
<!DOCTYPE html>
<html>
    <head>
        <title>Light Bulb Control</title>
        <style>
                body {
                    text-align: center;
                    padding: 100px;
                }
                #lightBulb {
                    width: 200px;
                    height: auto;
                }
                .button {
                    margin: 10px 50px ;
                    padding: 10px 20px;
                    font-size: 16px;
                    cursor: pointer;
                }
        </style>
    </head>
    <body>
            <h1><u>BULB CONTROL</u></h1>
            <img id="lightBulb" src="off.jpeg" alt="Light Bulb">
            <br>
            <button class="button" id="onButton">Turn on the light</button>
```

```
                    <button class="button" id="offButton">Turn on off the light</button>
                    <script src="bulb1.js"></script>
            </body>
</html>
```

Bulb.js

```
document.getElementById('onButton').addEventListener('click', function() {
    document.getElementById('lightBulb').src = 'on.jpeg';
});
document.getElementById('offButton').addEventListener('click', function() {
    document.getElementById('lightBulb').src = 'off.jpeg';
});
```

RESULT

The webpage to demonstrate image change using JavaScript has been designed.

VALIDATE INPUT FIELDS IN A FORM USING JAVASCRIPT

AIM

Develop a web application using JavaScript to validate the Name, Email and Mobile number fields of the form created in experiment no.5

SOURCE CODE

```html
<!DOCTYPE html>
<html>
  <head>
    <title>form</title>
    <style>
        .error {
            color: red;
            }
    </style>
  </head>
  <body>
     <h2 align="center">STUDENT REGISTRATION FORM</h2>
     <form id="form" onsubmit="return validateForm()">
     <table border="2">
     <tr>
            <td>FIRST NAME:</td>
            <td><input type="text" id="fname" name="fname" maxlength="30">(max 30 characters)
            <span id="firstNameError" class="error"></span>
            </td>
     </tr>
     <tr>
            <td>LAST NAME:</td>
            <td><input type="text" id="lname" name="lname" maxlength="30">(max 30 characters)
            <span id="lastNameError" class="error"></span>
            </td>
```

```
</tr>
<tr>
        <td>DATE OF BIRTH:</td>
        <td>
        <select >
        <option> Day</option>
        <option> 1</option>
        <option> 27</option>
        <option> 30</option>
        <option> 31</option>
        </select>
        <select >
        <option> Month</option>
        <option> January</option>
        <option> December</option>
        </select>
        <select>
        <option> Year</option>
        <option> 1992</option>
        <option> ….</option>
        <option>2011</option>
        <option>2012</option>
        </select></td>
</tr>
<tr>
        <td>E MAIL ID:</td>
        <td><input type="email" id="email" name="email">
        <span id="emailError" class="error"></span>
        </td>
</tr>
<tr>
        <td>MOBILE NUMBER:</td>
```

```html
<td><input type="tel" id="mobile" name="mobile" maxlength="10">
<span id="mobileError" class="error"></span>
</td>
</tr>
<tr>
    <td>GENDER</td>
    <td><input type="radio" name="gender" value="male">Male
    <input type="radio" name="gender" value="female">Female</td>
</tr>
<tr>
    <td>ADDRESS</td>
    <td><textarea name="address" rows="3"></textarea></td>
</tr>
<tr>
    <td>CITY:</td>
    <td><input type="text",name="city"></td>
</tr>
<tr>
    <td>PIN code:</td>
    <td><input type="text",name="pin" maxlength="6"></td>
</tr>
<tr>
    <td>STATE:</td>
    <td><input type="text",name="state"></td>
</tr>
<tr>
    <td>COUNTRY:</td>
    <td><select name="country">
    <option value="India">INDIA</option>
    <option value="Dubai">USA</option>
    <option value="Other">OTHER </option>
     </select>  </td>
```

```html
</tr>
<tr>
        <td>HOBBIES:</td>
        <td><input type="checkbox" name="hobbies" value="drawing">Drawing
        <input type="checkbox" name="hobbies" value="singing">singing
        <input type="checkbox" name="hobbies" value="dancing">dancing
        <input type="checkbox" name="hobbies" value="sketching">sketching
        <br>
        <input type="checkbox" name="hobbies" value="others">Others   <input
        type ="text"></td>
</tr>
<tr>
<td>QUALIFICATION:</td>
<td>
        <table>
        <tr>
        <th>Sl NO.</th>
        <th>Examination</th>
        <th>Board</th>
        <th>Percentage</th>
        <th>Year of Passing</th>
        </tr>
        <tr>
        <td>1.</td>
        <td>Class X</td>
        <td><input type="text" name="board10"></td>
        <td><input type="text" name="percent10"></td>
        <td><input type="text" name="year10"></td>
        </tr>
        <tr>
        <td>2.</td>

        <td>Class XII</td>
```

```html
        <td><input type="text" name="board12"></td>
        <td><input type="text" name="percent12"></td>
        <td><input type="text" name="year12"></td>
        </tr>
        <tr>
        <td>3.</td>
        <td>Graduation</td>
        <td><input type="text" name="boardgrad"></td>
        <td><input type="text" name="percentgrad"></td>
        <td><input type="text" name="yeargrad"></td>
        </tr>
        <tr>
        <td>4.</td>
        <td>Masters</td>
        <td><input type="text" name="boardm"></td>
        <td><input type="text" name="percentm"></td>
        <td><input type="text" name="yearm"></td>
        </tr>
        </table>
</td>
</tr>
<tr>
        <td>COURSE APPLIED FOR:</td>
        <td>
        <input type="radio" name="course" value="MCA">MCA
        <input type="radio" name="course" value="mtech">M.TECH
        <input type="radio" name="course" value="msc">M.Sc
        <input type="radio" name="course" value="phd">Ph.D
        </td>
</tr>
<tr>
        <td>TYPE YOUR PASSWORD:</td>
```

```html
        <td><input type="password",name="pswd"></td>
</tr>
<tr>
        <td>UPLOAD YOUR PHOTO:</td>
        <td><input type="file",name="photo"></td>
</tr>
        <td>DATE OF TC:</td>
        <td><input type="date",name="tcdate"></td>
<tr>
        <td colspan="2" align="center">
        <button type="submit">Submit</button>
        <button type="reset">Reset</button>
        </td>
</tr>
</table>
</form>
<script>
function validateForm() {
const fname = document.getElementById('fname').value.trim();
 const lname = document.getElementById('lname').value.trim();
 const email = document.getElementById('email').value.trim();
 const mobile = document.getElementById('mobile').value.trim();
 const namePattern = /^[A-Za-z\s]{1,30}$/;
 const emailPattern = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,6}$/;
 const mobilePattern = /^[0-9]{10}$/;
let isValid = true;
 if (!namePattern.test(fname)) {

     document.getElementById('firstNameError').textContent = "Please enter a
valid First Name (letters only, max 30 characters).";

     isValid = false;
   } else {

     document.getElementById('firstNameError').textContent = "";
```

```
        }
        if (!namePattern.test(lname)) {

            document.getElementById('lastNameError').textContent = "Please enter a
valid Last Name (letters only, max 30 characters).";

            isValid = false;

        } else {

            document.getElementById('lastNameError').textContent = "";

        }


        if (!emailPattern.test(email)) {

            document.getElementById('emailError').textContent = "Please enter a valid
Email address.";

            isValid = false;

        } else {

            document.getElementById('emailError').textContent = "";

        }


        if (!mobilePattern.test(mobile)) {

            document.getElementById('mobileError').textContent = "Please enter a valid
10-digit Mobile Number.";

            isValid = false;

        } else {

            document.getElementById('mobileError').textContent = "";

        }
        return isValid;
        }
        </script>
    </body>
</html>
```

RESULT

The HTML page to demonstrate Validation of form using JavaScript has been designed.

PHP – STUDENT DETAILS

AIM

PHP web application to read and display student details.

SOURCE CODE

Register.html

```
<html>
      <head>
              <title>Student Details</title>
      </head>
      <body align="center">
              <h1>Student Registration</h1>
              <form action="details.php" method="POST">

              <table border="2" align="center">
              <tr>
                      <td>ID</td>
                      <td><input type="text" name="id"></td>
              </tr>
               <tr>
                      <td>NAME</td>
                      <td><input type="text" name="name"></td>
              </tr>
              <tr>
                      <td>DEPARTMENT </td>
                      <td><input type="text" name="class"></td>
              </tr>
              <tr>
                      <td>AGE </td>
                      <td><input type="text" name="age"></td>
              </tr>
              <tr>
                      <td colspan="2" align="center">
                      <input type="submit" value="submit">
                      <input type="reset" value="reset">
                      </td>
              </tr>

              </table>
              </form>
```

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

Details.php

```php
<?php

$id=$_POST['id'];
$name=$_POST['name'];
$age=$_POST['age'];
$class=$_POST['class'];

echo "<h1><u>Student Details</u></h1><br>";
echo "<b>Name of Student:</b> $name<br><br> <b>Id:</b>  $id <br><br><b>Age:</b>
$age <br><br> <b>Department:</b>  $class";

?>
```

RESULT
The PHP page to display student details has been designed.

Experiment No : 16   **Date: 05/12/2024**

LOGIN AND WELCOME PAGE

AIM

PHP web application to implement a login page and a welcome page.(Login details should be matched with those stored in a database table).

SQL CODE

CREATE DATABASE logindetails;

```
CREATE TABLE users (
    id INT AUTO_INCREMENT PRIMARY KEY,
    username VARCHAR(50) NOT NULL UNIQUE,
    password VARCHAR(255) NOT NULL
);
```

SOURCE CODE

<u>dbconnect.php</u>

```php
<?php
$host = "localhost";
$user = "root";
$password = "";
$dbname = "logindetails";
$conn = new mysqli($host, $user, $password, $dbname);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
?>
```

<u>Login.php</u>

```php
<?php
include 'db.php';
$error = "";

 if ($_SERVER["REQUEST_METHOD"] == "POST") {
   $username = $_POST['username'];
   $password = $_POST['password'];

   $sql = "SELECT * FROM users WHERE username = ? AND password = ?";
```

```php
    $stmt = $conn->prepare($sql);
    $stmt->bind_param("ss", $username, $password);
    $stmt->execute();
    $result = $stmt->get_result();

    if ($result->num_rows > 0) {
      header("Location: welcome.html");
      exit;
    } else {
      $error = "Username or Password is incorrect.";
    }
  }
?>
```

```html
<!DOCTYPE html>
<html>
      <head>
              <title>Login</title>
      </head>
      <body>
       <h1>Login</h1>
       <form method="POST" action="">
               <label for="username">Username:</label><br>
              <input type="text" id="username" name="username" required><br><br>
               <label for="password">Password:</label><br>
               <input type="password" id="password" name="password" required>
               <br><br>
               <button type="submit">Login</button>
       </form>

      <?php if ($error): ?>
       <p style="color: red;"><?php echo $error; ?></p>
      <?php endif; ?>
      </body>
</html>
```

RESULT

The PHP page to demonstrate login and welcome page has been designed.

Experiment No : 17   **Date: 12/12/2024**

STUDENT INFORMATION - COOKIES

AIM

PHP web application using MySQL database to register, login and display student information. Use PHP Cookies to retrieve information from login.

SQL CODE

CREATE DATABASE studentregistration;

CREATE TABLE students (`id` INT NOT NULL AUTO_INCREMENT , `first_name` VARCHAR(30) NOT NULL , `last_name` VARCHAR(30) NOT NULL , `dob` DATE NOT NULL , `email` VARCHAR NOT NULL , `mobile` INT(10) NOT NULL , `password` VARCHAR(30) NOT NULL , PRIMARY KEY (`id`), UNIQUE (`email`)) ;

SOURCE CODE

dbconnect.php

```php
<?php
$servername = "localhost";
$username = "root";
$password = "";
$database = "studentregistration";
$conn = new mysqli($servername, $username, $password, $database);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
?>
```

Register.php

```php
<?php
include 'dbconnect.php';

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $first_name = $_POST['first_name'];
    $last_name = $_POST['last_name'];
    $dob = $_POST['dob'];
    $email = $_POST['email'];
    $mobile = $_POST['mobile'];
    $password = $_POST['password'];
```

```php
    $sql = "INSERT INTO students (first_name, last_name, dob, email, mobile, password)
VALUES (?, ?, ?, ?, ?, ?)";
    $stmt = $conn->prepare($sql);
    $stmt->bind_param("ssssss", $first_name, $last_name, $dob, $email, $mobile,
$password);

    if ($stmt->execute()) {
        echo "Registration successful! <a href='login.php'>Login here</a>";
    } else {
        echo "Error: " . $stmt->error;
    }
    $stmt->close();
    $conn->close();
}
?>
```

```html
<!DOCTYPE html>
<html>
        <head>
                <title>Student Registration</title>
        </head>
        <body>
                <h1>Student Registration</h1>
                <form method="POST" action="">
                <label>First Name:</label><br>
                <input type="text" name="first_name" required><br><br>

                <label>Last Name:</label><br>
                <input type="text" name="last_name" required><br><br>

                 <label>Date of Birth:</label><br>
                 <input type="date" name="dob" required><br><br>

                <label>Email:</label><br>
                 <input type="email" name="email" required><br><br>

                <label>Mobile:</label><br>
                <input type="text" name="mobile" maxlength="10" required><br><br>

                <label>Password:</label><br>
                <input type="password" name="password" required><br><br>

                <button type="submit">Register</button>
                </form>
                <br>
                  <a href = "login.php">Already have an Account? Login Here</a>
```

```
            </body>
</html>




Login.php

<?php
include 'dbconnect.php';

if ($_SERVER["REQUEST_METHOD"] == "POST") {
   $email = $_POST['email'];
   $password = $_POST['password'];

   $sql = "SELECT * FROM students WHERE email = ? AND password = ?";
   $stmt = $conn->prepare($sql);
   $stmt->bind_param("ss", $email, $password);
   $stmt->execute();
   $result = $stmt->get_result();

   if ($result->num_rows > 0) {
      $user = $result->fetch_assoc();

      setcookie("user", json_encode($user), time() + (86400 * 7), "/");
      header("Location: welcome.php");
      exit;
   } else {
      echo "Invalid email or password!";
   }
   $stmt->close();
   $conn->close();
}
?>

<!DOCTYPE html>
<html>
      <head>
             <title>Login</title>
      </head>
      <body>
             <h1>Login</h1>
             <form method="POST" action="">
              <label>Email:</label><br>
              <input type="email" name="email" required><br><br>
              <label>Password:</label><br>
              <input type="password" name="password" required><br><br>
```

```html
                    <button type="submit">Login</button>
                    </form>
                     <br>
                    <a href="register.php">New User? Register here</a>
            </body>
</html>
```

Welcome.php

```php
<?php
if (isset($_COOKIE['user'])) {
    $user = json_decode($_COOKIE['user'], true);
} else {
header("Location: login.php");
    exit;
}
?>

<!DOCTYPE html>
<html>
    <head>
            <title>PHPcookies</title>
    </head>
     <body>
            <h1>Welcome, <?php echo htmlspecialchars($user['first_name']); ?>!</h1>
            <h2>Your Details [COOKIES]</h2>
            <table border="1">
              <tr>
                <td>First Name:</td>
                <td><?php echo htmlspecialchars($user['first_name']); ?></td>
              </tr>
              <tr>
                <td>Last Name:</td>
                <td><?php echo htmlspecialchars($user['last_name']); ?></td>
              </tr>
              <tr>
                <td>Date of Birth:</td>
                <td><?php echo htmlspecialchars($user['dob']); ?></td>
              </tr>
              <tr>
                <td>Email:</td>
                <td><?php echo htmlspecialchars($user['email']); ?></td>
              </tr>
              <tr>
                <td>Mobile:</td>
```

```
            <td><?php echo htmlspecialchars($user['mobile']); ?></td>
          </tr>
        </table>
        <a href="logout.php">Logout</a>
    </body>
</html>
```

RESULT

The PHP page to demonstrate PHP cookies has been designed.

Experiment No : 18   **Date: 12/12/2024**

<div align="center">

STUDENT INFORMATION - SESSIONS

</div>

AIM

PHP web application using MySQL database to register, login and display student information. Use PHP Sessions to retrieve information from login.

SQL CODE

CREATE DATABASE studentregistration;

CREATE TABLE students (`id` INT NOT NULL AUTO_INCREMENT , `first_name` VARCHAR(30) NOT NULL , `last_name` VARCHAR(30) NOT NULL , `dob` DATE NOT NULL , `email` VARCHAR NOT NULL , `mobile` INT(10) NOT NULL , `password` VARCHAR(30) NOT NULL , PRIMARY KEY (`id`), UNIQUE (`email`)) ;

SOURCE CODE

dbconnect.php

```php
<?php
$servername = "localhost";
$username = "root";
$password = "";
$database = "studentregistration";
$conn = new mysqli($servername, $username, $password, $database);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
?>
```

Register.php

```php
<?php
include 'dbconnect.php';

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $first_name = $_POST['first_name'];
    $last_name = $_POST['last_name'];
    $dob = $_POST['dob'];
    $email = $_POST['email'];
    $mobile = $_POST['mobile'];
    $password = $_POST['password'];
```

```php
    $sql = "INSERT INTO students (first_name, last_name, dob, email, mobile, password)
VALUES (?, ?, ?, ?, ?, ?)";
    $stmt = $conn->prepare($sql);
    $stmt->bind_param("ssssss", $first_name, $last_name, $dob, $email, $mobile,
$password);

    if ($stmt->execute()) {
        echo "Registration successful! <a href='login.php'>Login here</a>";
    } else {
        echo "Error: " . $stmt->error;
    }
    $stmt->close();
    $conn->close();
}
?>

<!DOCTYPE html>
<html>
        <head>
                <title>Student Registration</title>
        </head>
        <body>
                <h1>Student Registration</h1>
                <form method="POST" action="">
                <label>First Name:</label><br>
                <input type="text" name="first_name" required><br><br>

                <label>Last Name:</label><br>
                <input type="text" name="last_name" required><br><br>

                <label>Date of Birth:</label><br>
                <input type="date" name="dob" required><br><br>

                <label>Email:</label><br>
                <input type="email" name="email" required><br><br>

                <label>Mobile:</label><br>
                <input type="text" name="mobile" maxlength="10" required><br><br>

                <label>Password:</label><br>
                <input type="password" name="password" required><br><br>

                <button type="submit">Register</button>
                </form>
                <br>
                  <a href = "login.php">Already have an Account? Login Here</a>
```

```
        </body>
</html>




Login.php

<?php
session_start();
include 'dbconnect.php';

if ($_SERVER["REQUEST_METHOD"] == "POST") {
   $email = $_POST['email'];
   $password = $_POST['password'];

   $sql = "SELECT * FROM students WHERE email = ? AND password = ?";
   $stmt = $conn->prepare($sql);
   $stmt->bind_param("ss", $email, $password);
   $stmt->execute();
   $result = $stmt->get_result();

   if ($result->num_rows > 0) {
      $user = $result->fetch_assoc();

      $_SESSION['user'] = $user;
      header("Location: welcome.php");
      exit;
   } else {
      echo "Invalid email or password!";
   }
   $stmt->close();
   $conn->close();
}
?>

<!DOCTYPE html>
<html>
        <head>
                <title>Login</title>
        </head>
        <body>
                <h1>Login</h1>
                <form method="POST" action="">
                 <label>Email:</label><br>
                 <input type="email" name="email" required><br><br>
                 <label>Password:</label><br>
```

```html
              <input type="password" name="password" required><br><br>
              <button type="submit">Login</button>
              </form>
               <br>
              <a href="register.php">New User? Register here</a>
        </body>
</html>
```

Welcome.php

```php
<?php
session_start();
if (!isset($_SESSION['user'])) {
    header("Location: login.php");
    exit;
}
$user = $_SESSION['user'];
?>

<!DOCTYPE html>
<html>
    <head>
          <title>PHPsessions</title>
    </head>
    <body>
          <h1>Welcome, <?php echo htmlspecialchars($user['first_name']); ?>!</h1>
          <h2>Your Details [SESSIONS]</h2>
          <table border="1">
            <tr>
              <td>First Name:</td>
              <td><?php echo htmlspecialchars($user['first_name']); ?></td>
            </tr>
            <tr>
              <td>Last Name:</td>
              <td><?php echo htmlspecialchars($user['last_name']); ?></td>
            </tr>
            <tr>
              <td>Date of Birth:</td>
              <td><?php echo htmlspecialchars($user['dob']); ?></td>
            </tr>
            <tr>
              <td>Email:</td>
              <td><?php echo htmlspecialchars($user['email']); ?></td>
            </tr>
            <tr>
```

```
            <td>Mobile:</td>
            <td><?php echo htmlspecialchars($user['mobile']); ?></td>
          </tr>
        </table>
        <a href="logout.php">Logout</a>
    </body>
</html>
```

Logout.php

```
<?php
session_start();
session_destroy();
header("Location: login.php");
exit;
?>
```

RESULT

The PHP page to demonstrate PHP Sessions has been designed.

PHP – STUDENT DETAILS

AIM

PHP web application to read and display student details.

SOURCE CODE

Register.html

```html
<html>
    <head>
        <title>Student Details</title>
    </head>
    <body align="center">
        <h1>Student Registration</h1>
        <form action="details.php" method="POST">

        <table border="2" align="center">
        <tr>
            <td>ID</td>
            <td><input type="text" name="id"></td>
        </tr>
        <tr>
            <td>NAME</td>
            <td><input type="text" name="name"></td>
        </tr>
        <tr>
            <td>DEPARTMENT </td>
            <td><input type="text" name="class"></td>
        </tr>
        <tr>
            <td>AGE </td>
            <td><input type="text" name="age"></td>
        </tr>
        <tr>
            <td colspan="2" align="center">
            <input type="submit" value="submit">
            <input type="reset" value="reset">
            </td>
        </tr>

        </table>
```

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

Details.php

```php
<?php

$id=$_POST['id'];
$name=$_POST['name'];
$age=$_POST['age'];
$class=$_POST['class'];

echo "<h1><u>Student Details</u></h1><br>";
echo "<b>Name of Student:</b> $name<br><br> <b>Id:</b>  $id <br><br><b>Age:</b>
$age <br><br> <b>Department:</b>  $class";

?>
```

RESULT
The PHP page to display student details has been designed.

LOGIN AND WELCOME PAGE

AIM

PHP web application to implement a login page and a welcome page.(Login details should be matched with those stored in a database table).

SQL CODE
create database logindetails

SOURCE CODE

<u>db.php</u>

```php
<?php
$host = "localhost";
$user = "root";
$password = "";
$dbname = "students";
$conn = new mysqli($host, $user, $password, $dbname);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
?>
```

<u>Login.php</u>

```php
<?php
include 'db.php';
$error = "";

 if ($_SERVER["REQUEST_METHOD"] == "POST") {
   $username = $_POST['username'];
   $password = $_POST['password'];

   $sql = "SELECT * FROM users WHERE USERNAME = ? AND PASSWORD = ?";
   $stmt = $conn->prepare($sql);
   $stmt->bind_param("ss", $username, $password);
   $stmt->execute();
   $result = $stmt->get_result();

   if ($result->num_rows > 0) {
      header("Location: welcome.html");
```

```
        exit;
    } else {
        $error = "Username or Password is incorrect.";
    }
  }
}
?>

<!DOCTYPE html>
<html>
        <head>
                <title>Login</title>
        </head>
        <body>
         <h1>Login</h1>
         <form method="POST" action="">
                 <label for="username">Username:</label><br>
                <input type="text" id="username" name="username" required><br><br>
                 <label for="password">Password:</label><br>
                 <input type="password" id="password" name="password" required>
                 <br><br>
                 <button type="submit">Login</button>
         </form>

        <?php if ($error): ?>
          <p style="color: red;"><?php echo $error; ?></p>
         <?php endif; ?>
        </body>
</html>
```

RESULT

The PHP page to demonstrate login and welcome page has been designed.

STUDENT INFORMATION - COOKIES

AIM

PHP web application using MySQL database to register, login and display student information. Use PHP Cookies to retrieve information from login.

SQL CODE

create database studentregistration

CREATE TABLE students (`id` INT NOT NULL AUTO_INCREMENT , `first_name` VARCHAR(30) NOT NULL , `last_name` VARCHAR(30) NOT NULL , `dob` DATE NOT NULL , `email` VARCHAR NOT NULL , `mobile` INT(10) NOT NULL , `password` VARCHAR(30) NOT NULL , PRIMARY KEY (`id`), UNIQUE (`email`)) ;

SOURCE CODE

dbconnect.php

```php
<?php
$servername = "localhost";
$username = "root";
$password = "";
$database = "studentregistration";
$conn = new mysqli($servername, $username, $password, $database);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
?>
```

Register.php

```php
<?php
include 'dbconnect.php';

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $first_name = $_POST['first_name'];
    $last_name = $_POST['last_name'];
    $dob = $_POST['dob'];
    $email = $_POST['email'];
    $mobile = $_POST['mobile'];
    $password = $_POST['password'];
```

```php
    $sql = "INSERT INTO students (first_name, last_name, dob, email, mobile, password)
VALUES (?, ?, ?, ?, ?, ?)";
    $stmt = $conn->prepare($sql);
    $stmt->bind_param("ssssss", $first_name, $last_name, $dob, $email, $mobile,
$password);

    if ($stmt->execute()) {
        echo "Registration successful! <a href='login.php'>Login here</a>";
    } else {
        echo "Error: " . $stmt->error;
    }
    $stmt->close();
    $conn->close();
}
?>
```

```html
<!DOCTYPE html>
<html>
        <head>
                <title>Student Registration</title>
        </head>
        <body>
                <h1>Student Registration</h1>
                <form method="POST" action="">
                <label>First Name:</label><br>
                <input type="text" name="first_name" required><br><br>

                <label>Last Name:</label><br>
                <input type="text" name="last_name" required><br><br>

                <label>Date of Birth:</label><br>
                <input type="date" name="dob" required><br><br>

                <label>Email:</label><br>
                <input type="email" name="email" required><br><br>

                <label>Mobile:</label><br>
                <input type="text" name="mobile" maxlength="10" required><br><br>

                <label>Password:</label><br>
                <input type="password" name="password" required><br><br>

                <button type="submit">Register</button>
                </form>
                <br>
```

```
                              <a href = "login.php">Already have an Account? Login Here</a>
              </body>
</html>




Login.php

<?php
include 'dbconnect.php';

if ($_SERVER["REQUEST_METHOD"] == "POST") {
   $email = $_POST['email'];
   $password = $_POST['password'];

   $sql = "SELECT * FROM students WHERE email = ? AND password = ?";
   $stmt = $conn->prepare($sql);
   $stmt->bind_param("ss", $email, $password);
   $stmt->execute();
   $result = $stmt->get_result();

   if ($result->num_rows > 0) {
      $user = $result->fetch_assoc();

      setcookie("user", json_encode($user), time() + (86400 * 7), "/");
      header("Location: welcome.php");
      exit;
   } else {
      echo "Invalid email or password!";
   }
   $stmt->close();
   $conn->close();
}
?>

<!DOCTYPE html>
<html>
        <head>
                <title>Login</title>
        </head>
        <body>
                <h1>Login</h1>
                <form method="POST" action="">
                 <label>Email:</label><br>
                 <input type="email" name="email" required><br><br>
                 <label>Password:</label><br>
```

```
            <input type="password" name="password" required><br><br>
            <button type="submit">Login</button>
            </form>
             <br>
            <a href="register.php">New User? Register here</a>
        </body>
</html>
```

Welcome.php

```php
<?php
if (isset($_COOKIE['user'])) {
    $user = json_decode($_COOKIE['user'], true);
} else {
header("Location: login.php");
    exit;
}
?>

<!DOCTYPE html>
<html>
    <head>
            <title>PHPcookies</title>
    </head>
     <body>
            <h1>Welcome, <?php echo htmlspecialchars($user['first_name']); ?>!</h1>
            <h2>Your Details [COOKIES]</h2>
            <table border="1">
              <tr>
                <td>First Name:</td>
                <td><?php echo htmlspecialchars($user['first_name']); ?></td>
              </tr>
              <tr>
                <td>Last Name:</td>
                <td><?php echo htmlspecialchars($user['last_name']); ?></td>
              </tr>
              <tr>
                <td>Date of Birth:</td>
                <td><?php echo htmlspecialchars($user['dob']); ?></td>
              </tr>
              <tr>
                <td>Email:</td>
                <td><?php echo htmlspecialchars($user['email']); ?></td>
              </tr>
              <tr>
```

```
            <td>Mobile:</td>
            <td><?php echo htmlspecialchars($user['mobile']); ?></td>
         </tr>
      </table>
      <a href="logout.php">Logout</a>
   </body>
</html>
```

RESULT

The PHP page to demonstrate PHP cookies has been designed.

STUDENT INFORMATION - SESSIONS

AIM

PHP web application using MySQL database to register, login and display student information. Use PHP Sessions to retrieve information from login..

SQL CODE

create database studentregistration

CREATE TABLE students (`id` INT NOT NULL AUTO_INCREMENT , `first_name` VARCHAR(30) NOT NULL , `last_name` VARCHAR(30) NOT NULL , `dob` DATE NOT NULL , `email` VARCHAR NOT NULL , `mobile` INT(10) NOT NULL , `password` VARCHAR(30) NOT NULL , PRIMARY KEY (`id`), UNIQUE (`email`)) ;

SOURCE CODE

dbconnect.php

```php
<?php
$servername = "localhost";
$username = "root";
$password = "";
$database = "studentregistration";
$conn = new mysqli($servername, $username, $password, $database);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
?>
```

Register.php

```php
<?php
include 'dbconnect.php';

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $first_name = $_POST['first_name'];
    $last_name = $_POST['last_name'];
    $dob = $_POST['dob'];
    $email = $_POST['email'];
    $mobile = $_POST['mobile'];
    $password = $_POST['password'];
```

```php
    $sql = "INSERT INTO students (first_name, last_name, dob, email, mobile, password)
VALUES (?, ?, ?, ?, ?, ?)";
    $stmt = $conn->prepare($sql);
    $stmt->bind_param("ssssss", $first_name, $last_name, $dob, $email, $mobile,
$password);

    if ($stmt->execute()) {
        echo "Registration successful! <a href='login.php'>Login here</a>";
    } else {
        echo "Error: " . $stmt->error;
    }
    $stmt->close();
    $conn->close();
}
?>

<!DOCTYPE html>
<html>
        <head>
                <title>Student Registration</title>
        </head>
        <body>
                <h1>Student Registration</h1>
                 <form method="POST" action="">
                <label>First Name:</label><br>
                <input type="text" name="first_name" required><br><br>

                <label>Last Name:</label><br>
                <input type="text" name="last_name" required><br><br>

                 <label>Date of Birth:</label><br>
                 <input type="date" name="dob" required><br><br>

                <label>Email:</label><br>
                 <input type="email" name="email" required><br><br>

                <label>Mobile:</label><br>
                <input type="text" name="mobile" maxlength="10" required><br><br>

                <label>Password:</label><br>
                <input type="password" name="password" required><br><br>

                <button type="submit">Register</button>
                </form>
                <br>
                 <a href = "login.php">Already have an Account? Login Here</a>
```

```
                </body>
</html>




Login.php

<?php
session_start();
include 'dbconnect.php';

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $email = $_POST['email'];
    $password = $_POST['password'];

    $sql = "SELECT * FROM students WHERE email = ? AND password = ?";
    $stmt = $conn->prepare($sql);
    $stmt->bind_param("ss", $email, $password);
    $stmt->execute();
    $result = $stmt->get_result();

    if ($result->num_rows > 0) {
        $user = $result->fetch_assoc();

        $_SESSION['user'] = $user;
        header("Location: welcome.php");
        exit;
    } else {
        echo "Invalid email or password!";
    }
    $stmt->close();
    $conn->close();
}
?>

<!DOCTYPE html>
<html>
        <head>
                <title>Login</title>
        </head>
        <body>
                <h1>Login</h1>
                <form method="POST" action="">
                 <label>Email:</label><br>
                 <input type="email" name="email" required><br><br>
                 <label>Password:</label><br>
```

```html
                        <input type="password" name="password" required><br><br>
                        <button type="submit">Login</button>
                        </form>
                         <br>
                        <a href="register.php">New User? Register here</a>
            </body>
</html>
```

Welcome.php

```php
<?php
session_start();
if (!isset($_SESSION['user'])) {
    header("Location: login.php");
    exit;
}
$user = $_SESSION['user'];
?>

<!DOCTYPE html>
<html>
    <head>
            <title>PHPsessions</title>
    </head>
     <body>
            <h1>Welcome, <?php echo htmlspecialchars($user['first_name']); ?>!</h1>
            <h2>Your Details [SESSIONS]</h2>
            <table border="1">
              <tr>
                <td>First Name:</td>
                <td><?php echo htmlspecialchars($user['first_name']); ?></td>
              </tr>
              <tr>
                <td>Last Name:</td>
                <td><?php echo htmlspecialchars($user['last_name']); ?></td>
              </tr>
              <tr>
                <td>Date of Birth:</td>
                <td><?php echo htmlspecialchars($user['dob']); ?></td>
              </tr>
              <tr>
                <td>Email:</td>
                <td><?php echo htmlspecialchars($user['email']); ?></td>
              </tr>
              <tr>
```

```
            <td>Mobile:</td>
            <td><?php echo htmlspecialchars($user['mobile']); ?></td>
         </tr>
      </table>
      <a href="logout.php">Logout</a>
   </body>
</html>
```

Logout.php

```
<?php
session_start();
session_destroy();
header("Location: login.php");
exit;
?>
```

RESULT

The PHP page to demonstrate PHP Sessions has been designed.