

BASIC HTML TAGS

AIM

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

SOURCE CODE

```
<html>

<head>

    <title>HTML TAGS</title>

</head>

<body bgcolor="lightblue">

    <h1 align="center">This is h1</h1>

    <h2>This is h2</h2>

    <h3>This is h3</h3>

    <h4>This is h4</h4>

    <h5>This is h5</h5>

    <h6>This is h6</h6>

    <p align="right">This paragraph is aligned to the right</p>

    <p>This is a<b>bold</b>text.<br>This is an <i>italicized text.</i>This is
    an<u>underlined text.</u></p>

    <marquee>This is a scrolling text</marquee>

    <p>visit<a href="https://www.rit.ac.in/">RIT</a>for more information</p>

    

</body>

</html>
```

RESULT

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

HTML LISTS

AIM

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

SOURCE CODE

```
<html>
<head>
    <title>HTML LIST</title>
</head>
<body>
    <h1>Ordered list</h1>
    <ol type="a">
        <li>text 1</li>
        <li>text 2</li>
        <li>text 3</li>
    </ol>
    <h1>Unordered list</h1>
    <ul type="circle">
        <li>text 1</li>
        <li>text 2</li>
        <li>text 3</li>
    </ul>
</body>
</html>
```

RESULT

The HTML page to demonstrate the use of html list has been designed.

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

```
<html>
<head>
    <title>RIT</title>
</head>
<body>
    <h1 style=color:blue;text align=center>Rajiv Gandhi Institute Of Technology</h1>
    <marquee style=color:green>Vision-Be center of technology...Mission-To impart knowledge</marquee>
    <h2 style=background-color:red;color:white>ABOUT US</h2>
    <p>Rajiv Gandhi Institute of Technology, 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 become one of the leading technical Institutes in Kerala.</p>
    <center></center>
```

<p>Rajiv Gandhi Institute of Technology (RIT) is one of the nine engineering colleges fully owned and run by the Government of Kerala. It offers Bachelor of Technology (B.Tech) in six disciplines, Master of Technology (M. Tech) in nine specializations, Bachelor of Architecture (B.Arch), Master of Computer Applications (MCA) and Research centre for various PhD Programmes. The college is affiliated to APJ Abdul Kalam Technological University and recognized by AICTE. Over its 30 years of existence, RIT has built a strong reputation as one of Kerala's leading technical institutes.</p>

<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="1">

<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>Electrical & Electronics Engineering</td>

<td>66</td>

</tr>

```

<tr>
    <td>Electrical & Communication Engineering</td>
    <td>66</td>
</tr>
<tr>
    <td>Computer Science & Engineering</td>
    <td>66</td>
</tr>
<tr>
    <td>B.Arch</td>
    <td>Architecture</td>
    <td>40<td>
</tr>
</table>
<h2 style=background-color:red,color:white>Contact Us</h2>
<h3 style=color:blue>address for communication</h3>
<p>Velloor PO, Pampady, Kottayam- 686501, Kerala State</p>
<a href="https://www.rit.ac.in/">click here to see official website</a>
</body>
</html>

```

RESULT

The HTML page to demonstarte 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**Festival.html**

```
<html>
<head>
    <title>Festivals In India</title>
</head>
<body>
    <center><h1>FESTIVALS IN INDIA</h1></center>
    <h2>Diwali</h2>
    <a href="Diwali.html" target="_blank">
    
    <h2>Christmas</h2>
    <a href="Christmas.html" target="_blank">
    </a>
    <h2>onam</h2>
    <a href="Onam.html" target="_blank">
    </a>
</body>
</html>
```

Diwali.html

```
<html>
<head>
</head>
    <h1>Diwali</h1>
```

```
<p>Diwali is often called the 'Festival of Lights', and is celebrated by lighting lamps, and bursting crackers and fireworks. It is a festival which commemorates the victorious return of Lord Rama to Ayodhya after saving his wife Sita from the demon king Ravana.</p>
```

```
</body>
```

```
</html>
```

Christmas.html

```
<html>
```

```
<head></head>
```

```
<body>
```

```
<h1>Christmas</h1>
```

```
<p>Christmas is celebrated every year on December 25. The festival marks the celebration of the birth anniversary of Jesus Christ. Jesus Christ is worshipped as the Messiah of God in Christian Mythology. Hence, his birthday is one of the most joyous ceremonies amongst Christians.</p>
```

```
</body>
```

```
</html>
```

Onam.html

```
<html>
```

```
<head>
```

```
<title>onam</title>
```

```
</head>
```

```
<body>
```

```
<h1 align="center">Onam</h1>
```

```
<p>Onam is a joyful festival celebrated in Kerala, bringing people together with its vibrant traditions. It features beautiful flower designs called Pookalam, a grand feast called Onasadya, and exciting snake-boat races. Onam also honours the legendary King Mahabali and marks the harvest season.</p>
```

```
</body>
```

```
</html>
```

RESULT

The HTML page to demonstrate the HTML hyperlink has been created.

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 CODEiframe.html

```
<html>

<head>

    <title> Home</title>

</head>

<body>

    <iframe src="frameitem.html" width=500 height=300></iframe>

    <iframe name="rframe" width=500 height=300></iframe>

</body>

</html>
```

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

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

</body>

</html>
```

fruits.html

```
<html>
<head>
    <title>fruits</title>
</head>
<body>
    <h3>Fruits</h3>
    
</body>
</html>
```

vegetables.html

```
<html>
<head>
    <title>vegetables</title>
</head>
<body>
    <h3>Vegetables</h3>
    
</body>
</html>
```

trees.html

```
<html>
<head>
    <title>trees</title>
</head>
<body>
    <h3>Trees</h3>
    
</body>
</html>
```

flowers.html

```
<html>
<head>
    <title>flowers</title>
</head>
<body>
    <h3>Flowers</h3>
    
</body>
</html>
```

RESULT

The HTML page to demonstrate HTML frame has been designed

HTML FORMS**AIM**

Create the following Student Registration Form

SOURCE CODE

```
<html>
<head><title>Form</title>
<style>
td{
    padding:8px;
}
</style>
<body>
<center><h1>STUDENT REGISTRATION FORM</h1><br>
<form>
<table border="1" cellpadding="2" width="60%">
<tr>
    <th>FIRST NAME</th>
    <td><span><input type="text" maxlength="30">(max 30 characters)</span>
    </td>
</tr>
<tr>
    <th>LAST NAME</th>
    <td><span><input type="text" maxlength="30">(max 30 characters)</span>
    </td>
</tr>
<tr>
    <th>DATE OF BIRTH</th>
    <td>
        <select>
            <option> DAY:</option>
            <option> 1</option>
```

<option> 2</option>
<option> 3</option>
<option> 4</option>
<option> 5</option>
<option> 6</option>
<option> 7</option>
<option> 8</option>
<option> 9</option>
<option> 10</option>
<option> 11</option>
<option> 12</option>
<option> 13</option>
<option> 14</option>
<option> 15</option>
<option> 16</option>
<option> 17</option>
<option> 18</option>
<option> 19</option>
<option> 20</option>
<option> 21</option>
<option> 22</option>
<option> 23</option>
<option> 23</option>
<option> 25</option>
<option> 26</option>
<option> 27</option>
<option> 28</option>
<option> 29</option>
<option> 30</option>
<option> 31</option>

</select>

```
<select>  
<option> MONTH:</option>  
<option> JAN</option>  
<option> FEB</option>  
<option> MAR</option>  
<option> APRIL</option>  
<option> MAY</option>  
<option> JUNE</option>  
<option> JULY</option>  
<option> AUGUST</option>  
<option> SEPT</option>  
<option> OCT</option>  
<option> NOV</option>  
<option> DEC</option>  
</select>
```

```
<select>  
<option> YEAR:</option>  
<option> 2000</option>  
<option> 2001</option>  
<option> 2002</option>  
<option> 2003</option>  
<option> 2004</option>  
<option> 2005</option>  
<option> 2006</option>  
<option> 2007</option>  
<option> 2008</option>  
<option> 2009</option>  
<option> 2010</option>  
<option> 2011</option>  
<option> 2012</option>  
<option> 2013</option>  
<option> 2014</option>
```

```

        <option> 2015</option>
        <option> 2016</option>
        <option> 2017</option>
        <option> 2018</option>
        <option> 2019</option>
        <option> 2020</option>
        <option> 2021</option>
        <option> 2022</option>
        <option> 2023</option>
        <option> 2024</option>
        </select>
    </td>
</tr>
<tr>
    <th>EMAIL</th>
    <td><span><input type="text" ></span>
    </td>
</tr>
<tr>
    <th>MOBILE NUMBER</th>
    <td><span><input type="text" maxlength="10">(max 10 digits)</span>
    </td>
</tr>
<tr>
    <th>GENDER</th>
    <td><span><input type="radio" value="MALE" name="radio">MALE
    <input type="radio" value="FEMALE" name="radio">FEMALE
    </span>
    </td>
</tr>
<tr>
    <th>ADDRESS</th>

```

```

        <td><span><textarea name="address" rows="4" cols="50"></textarea></span>
    </td>
</tr>
<tr>
    <th>CITY</th>
    <td><span><input type="text" maxlength="30">(maximum 30 char)</span>
    </td>
</tr>
    <th>PINCODE</th>
    <td><span><input type="text" maxlength="6">(maximum 6 digits)</span>
    </td>
</tr>
    <th>STATE</th>
    <td><span><input type="text" maxlength="30">(maximum 30 char)</span>
    </td>
</tr>
    <th>COUNTRY</th>
    <td><span><select name="country" style="width:40%">
        <option value="india">INDIA</option>
        <option value="usa">USA</option>
        <option value="other">OTHER</option>
    </select>
    </span>
    </td>
</tr>
<tr>
    <th>HOBBIES</th>
    <td> <div>DRAWING<input type="checkbox" name="drawing"/>
    SINGING<input type="checkbox" name="drawing"/>
    DANCING<input type="checkbox" name="drawing"/>
    SKETCHING<input type="checkbox" name="drawing"/>
    OTHERS<input type="text" />

```



```

        </div> </td>
</tr>
<tr>
<th>QUALIFICATION</th>
<td>
        <table border=0>
        <tr>
        <th> S I NO.EXAMINATION</th>
        <th>BOARD</th>
        <th>PERCENTAGE</th>
        <th>YEAR OF PASSING</th>
        </tr>
        <tr>
        <td>1 classX </td>
        <td> <input type="text"></td>
        <td> <input type="text"></td>
        <td> <input type="text"></td>
        </tr>
        <td>2 class X </td>
        <td> <input type="text"></td>
        <td> <input type="text"></td>
        <td> <input type="text"></td>
        </tr>
        <td>3 GRADUATION </td>
        <td> <input type="text"></td>
        <td> <input type="text"></td>
        <td> <input type="text"></td>
        </tr>
        <td>4 MASTERS</td>
        <td> <input type="text"></td>
        <td> <input type="text"></td>
        <td> <input type="text"></td>

```

```

        </tr>
    </table>
    </td>
</tr>
<tr>
    <th> COURSE APPLIED FOR</th>
    <td><span><input type="radio" value="MCA" name="radio">MCA
    <input type="radio" value="MCA" name="radio">Msc
    <input type="radio" value="MCA" name="radio">M TECH
    <input type="radio" value="MCA" name="radio">PHD
    </span></td>
</tr>
<tr>
    <th>TYPE YOUR PASSWORD</th>
    <td><span><input type="password" maxlength="30">(max 30 characters)</span>
    </td>
</tr>
<tr>
    <th>DATE OF TC</th>
    <td><span><input type="date" ></span>
    </td>
</tr>
<tr>
    <th>UPLOAD A PHOTO</th>
    <td><span><input type="file" name="photo"></span>
    </td>
</tr>
<tr>
    <th colspan=2><input type="submit" value="submit">
    <input type="reset" value="reset">
</tr>
</table>

```

```
</form>
```

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

RESULT

Program to create form is done and the output is obtained.

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

```
<html>
<head><title>Biodata</title>
<style>
    body{
        background-color:yellow;

    }
    h1 {
        color:red;
        text-align:center;
    }
    h2{
        color:white;
        background-color:blue;
        padding:10px;
    }
    p{
        border:2px black;
        padding:10px;
```

```

        width:fit-content;
    }
    ul{
        list-style-type:square;
    }
    contact{
        margin-top:20px;
        padding:10px;
        border:2px solid black;
    }
</style>
</head>
<body>
    <h1>SHINE PAUL</h1>
    <h2>personal details</h2>
    <ul>
        <li>Age</li>
        <li>Gender</li>
        <li>Address</li>
    </ul>
    <h2>Educational Details</h2>
    <ul>
        <li>Bachelor's Degree in physics</li>
        <li>High school from abcd school</li>
    </ul>
    <h2>Hobbies</h2>
    <ul>
        <li>Reading</li>
        <li>Playing</li>
        <li>Travelling</li>
    </ul>

```

```
<h2>Contact Details:</h2>
```

```
<p class="contact">Email:azx@gamil.com</p>
```

```
<p class="contact">Mobile:1234566779</p>
```

```
</body>
```

```
</html>
```

RESULT

Program to create webpage showing biodata is done and output is obtained.

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

main.html

```
<html>

<head>

    <title>PARAGRAPH STYLING</title>

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

</head>

<body>

    <p>This is a paragraph styled with an element selector</p>

    <p class="highlight">This is a paragraph styled with a class selector</p>

    <p id="special">This is a paragraph styled with an Id selector</p>

</body>

</html>
```

sub.css

```
p{

    color:red;

    background-color:blue;

    padding:10px;

}

.highlight{

    color:blue;

    background-color:lightyellow;

    padding:10px;
```

```
}  
#special{  
    color:white;  
    background-color:green;  
    padding:10px;  
}
```

RESULT

Program to create webpage using external stylesheet is done and its output is obtained.

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

main.html

```
<html>

<head><title>striped</title>
      <link rel="stylesheet" href="style.css">
</head>
<body>
<table id="striped-table">
    <tr>
        <th>Sl no:</th>
        <th>Admission no:</th>
        <th>Name:</th>
        <th>Email id:</th>
    </tr>
    <tr>
        <td>1</td>
        <td>19MP2314</td>
        <td>RAJESH</td>
        <td>rajesh@gmail.com</td>
```

```

</tr>
<tr>
    <td>2</td>
    <td>19MP2315</td>
    <td>SAHO MAHESH</td>
    <td>saho234@gmail.com</td>
</tr>
<tr>
    <td>3</td>
    <td>19MP2317</td>
    <td>SURESH</td>
    <td>suresh12@gmail.com</td>
</tr>
<tr>
    <td>4</td>
    <td>19MP2316</td>
    <td>SAVIO PAKL</td>
    <td>savio@gmail.com</td>
</tr>
</table>
</body>
</html>

```

style.css

```

#striped-table{
    width:100%;
    border-collapse:collapse;
    font-family:sans-serif;
}
#striped-table th{
    padding:20px 0;
    text-align:left;
}

```

```
        color:white;
        background-color:#b22222;
        border:1px solid grey;
    }
    #striped-table td{
        padding:8px;
        border:1px solid grey;
    }
    #striped-table tr:nth-child(even){
        background-color:#f2f2f2;
    }
    #striped-table tr:hover{
        background-color:burlywood;
    }
```

RESULT

Program to create a stripped table using css is done and output is obtained.

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

```
<html>
<head>
<title>Centered image </title>
<style>
    .img{
        display:flex;
        justify-content:center;
        align-item:100vh;
        margin:0;
    }
    img{
        max-width:100%;
        height:auto;
    }
    h2{
        color:white;
        background-color:red;
        padding:4px;
    }

</style>
</head>
<h2>CENTERED IMAGE</h2>
<div class="img">
    
</div>
```

```
<h2>LOVE</h2>  
</body>  
</html>
```

RESULT

The HTML page to demonstrate image aligned using css.

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

```
<html>
<head>
  <title>Side Bar</title>
  <style>
    .sidenav {
      height: 100%;
      width: 160px;
```

```

        position: fixed;
        top: 0;
        left: 0;
        background-color: green;
        padding-top: 20px;
    }

    .sidenav a {
        display: block;
        color: white;
        padding: 6px 8px 6px 16px;
        text-decoration: none;
    }

    .sidenav a:hover {
        color: red;
    }

    .main {
        margin-left: 160px;
        padding: 0 10px;
        height: 2000px;
    }
</style>
</head>
<body>
    <div class="sidenav">
        <a href="about">About Us</a>
        <a href="departments">Departments</a>
        <a href="vision-mission">Vision and 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.

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

Main.html

```
<html>
<head>
    <title>Change Background Color</title>
    <style>
        body {
            transition: background-color 3s;
            text-align: center;
            padding: 250px;
        }
        button {
            padding: 10px 20px;
            font-size: 16px;
        }
    </style>
</head>
<body>

    <h1>CHANGE BACKGROUND COLOR</h1>

    <button id="colorButton">Change Background Color</button>

    <script src="q1sub.js"></script>

</body>
```

</html>

q1sub.js

```
const button = document.getElementById("colorButton");
```

```
button.addEventListener('click', function() {  
    document.body.style.backgroundColor = "red";  
});
```

```
button.addEventListener('dblclick', function() {  
    document.body.style.backgroundColor = "green";  
});
```

RESULT

The HTML page to change background color using javascript has been created.

CHANGE IMAGES IN WEBPAGE USING JAVASCRIPT

AIM

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

Hints:

SOURCE CODE

Main.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>Light Bulb Control</h1>
    
    <br>
```

```
<button class="button" id="onButton">Turn on the light</button>
```

```
<button class="button" id="offButton">Turn off the light</button>
```

```
<script src="q2sub.js"></script>
```

```
</body>
```

```
</html>
```

q2sub.js

```
document.getElementById('onButton').addEventListener('click', function() {  
    document.getElementById('lightBulb').src = 'bulbon.png';  
});
```

```
document.getElementById('offButton').addEventListener('click', function() {  
    document.getElementById('lightBulb').src = 'bulboff.png';  
});
```

RESULT

The HTML page to change images in background using javascript has been created.

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>

<head>

  <title>Student Registration Form</title>

  <style>

    td {

      padding: 8px;

    }

    .error {

      color: red;

      font-size: 0.9em;

    }

  </style>

  <script>

    function validateForm() {

      document.querySelectorAll('.error').forEach(error => error.textContent = "");

      let isValid = true;

      const firstName = document.forms[0]["firstName"].value;

      const namepattern=/^[a-zA-Z\s]{1,30}$/;

      if (!namepattern.test(firstName)) {

        document.getElementById('firstNameError').textContent = 'NAME MUST BE LETTERS';

        isValid = false;

      }

    }

  </script>

</head>

<body>

  <div>

    <table>

      <tr>

        <td>Name</td>

        <td><input type="text" value="firstName" /></td>

      </tr>

      <tr>

        <td>Email</td>

        <td><input type="text" value="email" /></td>

      </tr>

      <tr>

        <td>Mobile Number</td>

        <td><input type="text" value="mobileNumber" /></td>

      </tr>

      <tr>

        <td colspan="2"><input type="button" value="Register" /></td>

      </tr>

    </table>

    <div>

      <div></div>

      <div></div>

      <div></div>

    </div>

  </div>

</body>

</html>
```

```

const lastName = document.forms[0]["lastName"].value;
if (!lastName) {
    document.getElementById('lastNameError').textContent = 'NAME MUST BE
LETTERS';
    isValid = false;
}

const email = document.forms[0]["email"].value;
const emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
if (!emailPattern.test(email)) {
    document.getElementById('emailError').textContent = 'Please enter a valid email
address.';
    isValid = false;
}

const mobileNumber = document.forms[0]["mobileNumber"].value;
const mobilePattern = /^\d{10}$/;
if (!mobilePattern.test(mobileNumber)) {
    document.getElementById('mobileError').textContent = ' Please enter a valid mobile
number!';
    isValid = false;
}

return isValid;
}
</script>
</head>
<body>
<center>
<h1>STUDENT REGISTRATION FORM</h1><br>
<form onsubmit="return validateForm()">
<table border="1" cellpadding="2" width="60%">
<tr>

```

```

<th>FIRST NAME</th>
<td>
  <input type="text" name="firstName" maxlength="30" required>
  <span class="error" id="firstNameError"></span>
</td>
</tr>
<tr>
<th>LAST NAME</th>
<td>
  <input type="text" name="lastName" maxlength="30" required>
  <span class="error" id="lastNameError"></span>
</td>
</tr>
<tr>
<th>DATE OF BIRTH</th>
<td>
  <select>
    <option> DAY:</option>
    <option> 1</option>
    <option> 2</option>
    <option> 3</option>
    <option> 4</option>
    <option> 5</option>
    <option> 6</option>
    <option> 7</option>
    <option> 8</option>
    <option> 9</option>
    <option> 10</option>
    <option> 11</option>
    <option> 12</option>
    <option> 13</option>
    <option> 14</option>
  </select>

```

<option> 15</option>
<option> 16</option>
<option> 17</option>
<option> 18</option>
<option> 19</option>
<option> 20</option>
<option> 21</option>
<option> 22</option>
<option> 23</option>
<option> 23</option>
<option> 25</option>
<option> 26</option>
<option> 27</option>
<option> 28</option>
<option> 29</option>
<option> 30</option>
<option> 31</option>

</select>

<select>

<option> MONTH:</option>
<option> JAN</option>
<option> FEB</option>
<option> MAR</option>
<option> APRIL</option>
<option> MAY</option>
<option> JUNE</option>
<option> JULY</option>
<option> AUGUST</option>
<option> SEPT</option>
<option> OCT</option>
<option> NOV</option>


```

        <option> DEC</option>
    </select>
    <select>
        <option> YEAR:</option>
        <option> 2000</option>
        <option> 2001</option>
        <option> 2002</option>
        <option> 2003</option>
        <option> 2004</option>
        <option> 2005</option>
        <option> 2006</option>
        <option> 2007</option>
        <option> 2008</option>
        <option> 2009</option>
        <option> 2010</option>
        <option> 2011</option>
        <option> 2012</option>
        <option> 2013</option>
        <option> 2014</option>
        <option> 2015</option>
        <option> 2016</option>
        <option> 2017</option>
        <option> 2018</option>
        <option> 2019</option>
        <option> 2020</option>
        <option> 2021</option>
        <option> 2022</option>
        <option> 2023</option>
        <option> 2024</option>
    </select>
</td>
</tr>

```

```

<tr>
  <th>EMAIL</th>
  <td>
    <input type="text" name="email" required>
    <span class="error" id="emailError"></span>
  </td>
</tr>
<tr>
  <th>MOBILE NUMBER</th>
  <td>
    <input type="text" name="mobileNumber" maxlength="10" required>
    <span class="error" id="mobileError"></span>
  </td>
</tr>
<tr>
  <th>GENDER</th>
  <td>
    <input type="radio" value="MALE" name="gender"> MALE
    <input type="radio" value="FEMALE" name="gender"> FEMALE
  </td>
</tr>
<tr>
  <th>ADDRESS</th>
  <td><textarea name="address" rows="4" cols="50"></textarea></td>
</tr>
<tr>
  <th>CITY</th>
  <td><input type="text" maxlength="30"></td>
</tr>
<tr>
  <th>PINCODE</th>
  <td><input type="text" maxlength="6"></td>

```

```

</tr>
<tr>
  <th>STATE</th>
  <td><input type="text" maxlength="30"></td>
</tr>
<tr>
  <th>COUNTRY</th>
  <td>
    <select name="country" style="width:40%">
      <option value="india">INDIA</option>
      <option value="usa">USA</option>
      <option value="other">OTHER</option>
    </select>
  </td>
</tr>
<tr>
  <th>HOBBIES</th>
  <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
    OTHERS: <input type="text" />
  </td>
</tr>
<tr>
  <th>QUALIFICATION</th>
  <td>
    <table border=0>
      <tr>
        <th>S I NO.EXAMINATION</th>
        <th>BOARD</th>

```

```

        <th>PERCENTAGE</th>
        <th>YEAR OF PASSING</th>
    </tr>
    <tr>
        <td>1 class X</td>
        <td><input type="text"></td>
        <td><input type="text"></td>
        <td><input type="text"></td>
    </tr>
    <tr>
        <td>2 class X</td>
        <td><input type="text"></td>
        <td><input type="text"></td>
        <td><input type="text"></td>
    </tr>
    <tr>
        <td>3 GRADUATION</td>
        <td><input type="text"></td>
        <td><input type="text"></td>
        <td><input type="text"></td>
    </tr>
    <tr>
        <td>4 MASTERS</td>
        <td><input type="text"></td>
        <td><input type="text"></td>
        <td><input type="text"></td>
    </tr>
</table>
</td>
</tr>
<tr>
    <th>COURSE APPLIED FOR</th>

```

```

        <td>
            <input type="radio" value="MCA" name="course"> MCA
            <input type="radio" value="MSc" name="course"> MSc
            <input type="radio" value="M TECH" name="course"> M TECH
            <input type="radio" value="PHD" name="course"> PHD
        </td>
    </tr>
    <tr>
        <th>TYPE YOUR PASSWORD</th>
        <td><input type="password" maxlength="30"></td>
    </tr>
    <tr>
        <th>DATE OF TC</th>
        <td><input type="date"></td>
    </tr>
    <tr>
        <th>UPLOAD A PHOTO</th>
        <td><input type="file" name="photo"></td>
    </tr>
    <tr>
        <th colspan=2>
            <input type="submit" value="submit">
            <input type="reset" value="reset">
        </th>
    </tr>
</table>
</form>
</center>
</body>
</html>

```

RESULT

The HTML page to demonstrate form validation using javascript has been created.