

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, tag.

SOURCE CODE:

```
<html>
  <head>
    Hypertext Markup language
  </head>
  <body bgcolor="yellow">
    <h1>its h1 tag</h1>
    <h2>its h2 tag</h2>
    <h3>its h3 tag</h3>
    <h4>its h4 tag</h4>
    <h5>its h5 tag</h5>
    <h6>its h6 tag</h6>
    <p>HTML stands for<u> Hypertext Markup Language</u>is the standard
    language used to create and design webpages on the internet.It was
    introduced by <b> Tim Berners Lee </b> in <u>1991</u> at CERN as a
    simple markup language.since then,it has evlved through versions from
    html 2.0 to <i> Html</i> the latest 2024 versions </p>
    
    <marquee> hello there</marquee>
  </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>List</title>
  </head>
  <body>
    <h1>Popular Games in India</h1>
    <ol>
      <li>Football</li>
      <li>cricket</li>
      <li>kabadi</li>
    </ol>
    <h1>Other Games in India</h1>
    <ul>
      <li>basketball</li>
      <li>volleyball</li>
      <li>handball</li>
    </ul>
  </body>
</html>
```

RESULT

The HTML page to demonstrate html lists has been designed.

HTML PAGE WITH IMAGES AND TABLES**AIM**

Create a static web page 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 KOTTAYAM</title>
    </head>
    <body>
        <h1 align="center" style="color:blue">RAJIV GANDHI INSTITUTE OF
        TECHNOLOGY,KOTTAYAM</h1>
        <marquee align="center" style="color:green"><b>Vision</b>-Be a centre
        of technological excellence for the betterment of
        society.....<b>Mission</b>-To impart knowledge of latest technologies to
        students</marquee>
        <h2 style="color:white;background-color:red">About Us</h2>
        <center>
            <imgsrc="https://images.collegedunia.com/public/college_data/images/ca
            mpusimage/14417793212.jpg" width="1000",height="300"></center>
            <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 india.</p>
            <br>
            <h2 style="color:white;background-color:red">Courses 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.

UG
COURSES
DEPARTMENT
INTAKE
BTECH
computerscience
60
BTECH
electrical
60
BTECH
mechanical
60

PG
COURSES
DEPARTMENT
INTAKE
MTECH
computerscience
60

```

        <td>MCA</td>
        <td>computer science</td>
        <td>60</td>
    </tr>
</table>
    <h2 style="color:white;background-color:red">CONTACT
    US</h2>
    <h3 style="color:white;background-color:red">Address for
    Communication </h3>
    <p>vellor PO<br>pampady<br>kottayam-686501,kerala
    state</p><br>
    <a href="https://www.rit.ac.in/">Official Website</a>
</body>
</html>

```

RESULT

The HTML page to demonstrate college web page has been designed.

HTML PAGE WITH HYPERLINKS**AIM**

Create an attractive web page 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 web page showing details of that festival. The new web page should be opened in another tab.

SOURCE CODE:**festival.html**

```
<html>
    <head>
        <title>Festival In India</title>
    </head>
    <body>
        <h1>Onam</h1>
        <a href="onam.html"target="blank">
            
        </a>
        <h1>Holi</h1>
        <a href="holi.html"target="blank">
            
        </a>
        <h1>Diwali</h1>
        <a href="diwali.html"target="blank">
            
        </a>
    </body>
</html>
```

onam.html

```
<html>
    <head>
        <title>Onam</title>
    </head>
    <body>
        <h1>Onam</h1>
        
    </body>
</html>
```

```
        <p>Onam is an annual harvest and Hindhu cultural festival celebrated
        mostly by the people of Kerala.A major annual event for Keralalites,it is
        the official festival of the state.
        </p>
    </body>
</html>
```

holi.html

```
<html>
    <head>
        <title>Holi</title>
    </head>
    <body>
        <h1>Holi</h1>
        
        <p>Holi is a popular and significant Hindhu festival celebrated as the
        festival of colours,love and spring.
        </p>
    </body>
</html>
```

diwali.html

```
<html>
    <head>
        <title>Diwali</title>
    </head>
    <body>
        <h1>Diwali</h1>
        
        <p>Diwali, one of the major religious festivals in Hinduism, Jainism,
        and Sikhism, lasting for five days from the 13th day of the dark half of the
        lunar month Ashvina to the second day of the light half of the lunar month
        Kartika. </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 web page 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:**iframe.html**

```
<html>
  <head></head>
  <body>
    <iframe src="list.html" height="500px"></iframe>
  </body>
</html>
```

list.html

```
<html>
  <head></head>
  <body>
    <a href="fruits.html" target="f"> FRUITS </a><br>
    <a href="veg.html" target="f"> VEGETABLES </a><br>
    <a href="flower.html" target="f"> FLOWERS </a><br>
    <a href="tree.html" target="f"> TREES</a><br>
  </body>
</html>
```

fruits.html

```
<html>
  <head></head>
  <body>
    <h1>Fruits</h1>
    
  </body>
</html>
```

vegetables.html

```
<html>
```

```
<head></head>
<body>
    <h1>VEGETABLES</h1>
    
</body>
</html>
```

flowers.html

```
<html>
    <head></head>
    <body>
        <h1>FLOWERS</h1>
        
    </body>
</html>
```

trees.html

```
<html>
    <head></head>
    <body>
        <h1>TREE</h1>
        
    </body>
</html>
```

RESULT

The HTML page to demonstrate HTML frame has been designed.

HTML FORM**AIM**

Create a Student Registration Form.

SOURCE CODE:

```
<html>
  <body>
    <h2 style="text-align:center">STUDENT REGISTRATION FORM</h2>
    <form name="registrationForm" onsubmit="return validateForm()">
      <table align="center" border="1" cellpadding="8">
        <tr>
          <td>FIRST NAME</td>
          <td><input type="text" name="firstName">&nbsp;(max 30
            Characters)</td>
        </tr>
        <tr>
          <td>LAST NAME</td>
          <td><input type="text" name="lastName">&nbsp;(max 30
            Characters)</td>
        </tr>
        <tr>
          <td>DATE OF BIRTH</td>
          <td>
            <select>
              <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>
            </select>
          </td>
        </tr>
      </table>
    </form>
  </body>
</html>
```

```
<option>18</option>
<option>19</option>
<option>20</option>
<option>21</option>
<option>22</option>
<option>23</option>
<option>24</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>Jan</option>
  <option>Feb</option>
  <option>Mar</option>
  <option>Apr</option>
  <option>May</option>
  <option>Jun</option>
  <option>Jul</option>
  <option>Aug</option>
  <option>Set</option>
  <option>Oct</option>
  <option>Nov</option>
  <option>Dec</option>
</select>
<select>
  <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>
                        <td>EMAIL-ID</td>
                        <td><input type="email" name="email"></td>
                    </tr>
                    <tr>
                        <td>MOBILE NUMBER</td>
                        <td><input type="text" name="mobile">&nbsp;(10 digit
number)</td>
                    </tr>
                    <tr>
                        <td>GENDER</td>
                        <td><input type="radio" name="gen"
value="MALE">Male<input type="radio" name="gen"
value="FEMALE">Female</td>
                    </tr>
                    <tr>
                        <td>ADDRESS</td>
                        <td><textarea rows="3" cols="25"></textarea></td>
                    </tr>
                    <tr>
                        <td>CITY</td>
                        <td><input type="text">&nbsp;(max 30 Characters)</td>
                    </tr>
                    <tr>
                        <td>PINCODE</td>
                        <td><input type="text">&nbsp;(6-digit number)</td>
                    </tr>
                    <tr>
                        <td>STATE</td>
                        <td><input type="text">&nbsp;(max 30 Characters)</td>
                    </tr>
                    <tr>
                        <td>COUNTRY</td>
                        <td><input type="text" value="INDIA">&nbsp;</td>
                    </tr>
                    <tr>
                        <td>HOBBIES</td>
                        <td><input type="checkbox">Drawing&nbsp;
<input type="checkbox">Singing&nbsp;
<input type="checkbox">Dancing&nbsp;

```

```

<input type="checkbox">Sketching<br>
<input type="checkbox">Others&nbsp;<input type="text">
</td>
</tr>
<tr>
<td>QUALIFICATION</td>
<td>
<table>
<tr>
<th>SL NO:&nbsp;</th>
<th>Examination&nbsp;</th>
<th>Board&nbsp;</th>
<th>Percentage&nbsp;</th>
<th>Year of Passing&nbsp;</th>
</tr>
<tr>
<th>1</th>
<th>Class X</th>
<td><input type="text"></td>
<td><input type="text"></td>
<td><input type="text"></td>
</tr>
<tr>
<th>2</th>
<th>Class XII</th>
<td><input type="text"></td>
<td><input type="text"></td>
<td><input type="text"></td>
</tr>
<tr>
<th>3</th>
<th>Graduation</th>
<td><input type="text"></td>
<td><input type="text"></td>
<td><input type="text"></td>
</tr>
<tr>
<th>4</th>
<th>Masters</th>
<td><input type="text"></td>
<td><input type="text"></td>
<td><input type="text"></td>
</tr>
</table>
</td>
</tr>

```

```
 <td></td> <td></td> <td><center>(10 char max)</center></td> <td><center>(upto 2 decimal)</center></td> </tr> </table> </td> </tr> <tr> <td>COURSES<br>APPLIED FOR</td> <td>MCA<input type="radio" name="cou">M.Tech<input type="radio" name="cou">M.Sc.<input type="radio" name="cou">P.hD<input type="radio" name="cou"></td> </tr> <tr> <td>TYPE YOUR PASSWORD</td> <td><input type="password">&nbsp;(Max. 30 Characters)</td> </tr> <tr> <td>UPLOAD YOUR PHOTO</td> <td><input type="file"></td> </tr> <tr> <td>DATE OF TC</td> <td><input type="date"></td> </tr> <tr> <td colspan="2"><center><input type="submit" value="SUBMIT">&nbsp;<input type="reset"></center></td> </tr> </table> </form> </body> </html> |
```

RESULT

The HTML page to demonstrate forms has been created.

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> element 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;
    }
    ul
    {
        list-style-type:none;
    }
    .contact
```



```

        {
            margin-top:20px;
            padding:10px;
            border:2px solid black;
        }
</style>
</head>
<body>
    <h1>VIRAT KOHLI</h1>
    <h2>PERSONAL DETAILS</h2>
    <ul>
        <li>AGE:34</li>
        <li>GENDER:MALE</li>
        <li>ADDRESS:VA VILLA,MG
        STREET,GUJARAT,695002</li>
    </ul>
    <h2>EDUCATIONAL DETAILS</h2>
    <ul>
        <li>BACHELORS DEGREE IN PHYSICS</li>
        <li>HIGH SCHOOL FROM ABC HSS SCHOOL</li>
    </ul>
    <h2>HOBBIES</h2>
    <ul>
        <li>CRICKET</li>
        <li>READING</li>
        <li>TRAVELLING</li>
    </ul>
    <h2>CONTACT DETAILS</h2>
    <ul>
        <p class="contact">EMAIL:virat18@gmail.com</p>
        <p class="contact">MOBILE:999477689</p>
    </ul>
</body>
</html>

```

RESULT

The HTML page to demonstrate HTML internal style sheets has been designed.

HTML PAGE WITH EXTERNAL CSS**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:prg2.html

```
<html>
  <head>
    <title>paragraph styling</title>
    <link rel="stylesheet" href="file2.css">
  </head>
  <body>
    <p>This is a paragraph styled with an element selector</p>
    <p class="highlight">This is paragraph styled with a class selector</p>
    <p id="special">This is a paragraph styled with an ID selector</p>
  </body>
</html>
```

file2.css

```
p{
  color:white;
  background-color:blue;
  padding:10px;
}
.highlight{
  color:green;
  background-color:yellow;
  padding:10px;
}
#special{
  color:blue;
  background-color:red;
  padding:10px;
}
```

RESULT

The HTML page to demonstrate HTML external style sheet 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:

prg2.html

```
<html>
  <head>
    <title>stripped table</title>
    <link rel="stylesheet" href="file3.css">
  </head>
  <body>
    <table id="stripped-table">
      <tr>
        <th>SLNO:</th>
        <th>ADMISSION NO:</th>
        <th>NAME:</th>
        <th>EMAIL ID:</th>
      </tr>
      <tr>
        <td>1</td>
        <td>19mp2134</td>
        <td>Uthara manoj</td>
        <td>utharamanoj@gmail.com</td>
      </tr>
      <tr>
        <td>2</td>
        <td>19mp2135</td>
        <td>Malavika Vinod</td>
        <td>malavikavinod@gmail.com</td>
      </tr>
    </table>
  </body>
</html>
```

```

        <tr>
            <td>3</td>
            <td>19mp2136</td>
            <td>Ajith T S</td>
            <td>ajith2009@gmail.com</td>
        </tr>
        <tr>
            <td>4</td>
            <td>19mp2137</td>
            <td>Adwaith S</td>
            <td>adwaith1224@gmail.com</td>
        </tr>
        <tr>
            <td>5</td>
            <td>19mp2138</td>
            <td>Arjun P</td>
            <td>arjun2001@gmail.com</td>
        </tr>
    </table>
</body>
</html>

```

file3.css

```

#striped-table{
    width:100%;
    border-collapse:collapse;
    font-family:sans-serif;
}
#stripped-table th{
    padding:20px;
    text-align:left;
    color:white;
    background-color:#b22222;
    border:1px solid grey;
}

#stripped-table td{
    padding:8px;
    border: 1px solid grey;
}
#stripped-table tr:nth-child(even){
    background-color:#f2f2f2;
}

```

```
#stripped-table tr:hover{  
    background-color:burlywood;  
}
```

RESULT

The HTML page to demonstrate stripped table using css.

HTML PAGE WITH IMAGE ALIGNED USING CSS**AIM**

Create a web page with a center aligned Image using CSS.

SOURCE CODE:Prg4.html

```
<html>
  <head>
    <title>WebpageT</title>
    <link rel="stylesheet" href="file4.css">
  </head>
  <body>
    <div class="caption">Center on image</div>
    
    <div class="footer"><p>Learning tower of pisa</p></div>
  </body>
</html>
```

file4.css

```
body{
  font-family:sans-serif;
  text-align:center;
  margin:0;
  padding:0;
}
.caption,.footer{
  color:white;
  background-color:red;
  font-weight:bold;
  padding:10px;
}
.center-image{
  display:block;
  margin-left:auto;
  margin-right:auto;
  margin-top:20px;
  width:400;
}
```

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 barexample'.

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:11.html

```
<html>
  <head><link rel="stylesheet" href="11.css"></head>
  <div class="sidenav">
    <p>
      <a href="">AboutUs</a>
      <a href="">Departments</a>
```

```

        <a href="">Vision and Mission</a>
        <a href="">Contact Us</a>
    </p>
</div>
    <div class="main">
        <h1>Example</h1>
    </div>
</html>

```

11.css

```

a{
    display:block;
    text-decoration:none;
    padding-top:6px;
    padding-right:8px;
    padding-bottom:6px;
    padding-left:16px;
    color:white;
}
.sidenav{
    height:100%;
    width:160px;
    padding-top:20px;
    position:fixed;
    background-color:green;
}
.sidenav a:hover{
    background-color:red;
}
.main{
    position:fixed;
    left:200px;
    padding-top:0px;
    padding-right:10px;
    padding-bottom:0px;
    padding-left:10px;
    height:2000px;
}

```

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 web page when the following events of the button “change background color” occur.

- a. Double click – background color changed to green.
- b. Single click – background color changed to red

SOURCE CODE:

```
<html>
  <head>
    <style>
      body {
        text-align: center;
        margin-top: 100px;
        font-family: Arial, Sans-Serif;
      }
      button {
        padding: 15px 30px;
        font-size: 18px;
        cursor: pointer;
      }
    </style>
  </head>
  <body>
    <button id="crbtn">Change Background Color</button>
    <script>
      const crbtn = document.getElementById("crbtn");
      crbtn.addEventListener('click', function() {
        document.body.style.backgroundColor = 'red';
      });
      crbtn.addEventListener('dblclick', function() {
        document.body.style.backgroundColor = 'green';
      });
    </script>
  </body>
</html>
```

RESULT

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

CHANGE IMAGES IN BACKGROUND USING JAVASCRIPT**AIM**

Create a web application using JavaScript to turn on / off the given light bulb.

SOURCE CODE:

```
<html>
  <head>
    <style>
      body {
        text-align: center;
        margin-top: 100px;
        font-family: Arial, Sans-Serif;
      }
      img{
        width:200px;
        height:auto;
        margin:20px;
      }
      button {
        padding: 10px 20px;
        margin:10px;
        font-size: 18px;
        cursor: pointer;
      }
    </style>
  </head>
  <body>

    <br>
    <button id="offbutton">TURN OFF</button>
    <button id="onbutton">TURN ON</button>
    <script>
      const off=document.getElementById("offbutton");
      const on=document.getElementById("onbutton");
      on.addEventListener('click', function() {
        document.getElementById("bulb").src ='bulbon.png';
      });
      off.addEventListener('click', function() {
        document.getElementById("bulb").src ='bulboff    .png';
      });
    </script>
  </body>
</html>
```

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

RESULT

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

VALIDATE INPUT FIELDS IN FORMS USING JAVASCRIPT**AIM**

Develop a web application using JavaScript to validate the Name, Email and Mobile number fields of the form.

SOURCE CODE:

```
<html>
  <head>
  <script>
function validateForm() {
    firstName = document.forms["registrationForm"]["firstName"].value;
    var lastName = document.forms["registrationForm"]["lastName"].value;
    var email = document.forms["registrationForm"]["email"].value;
    var mobile = document.forms["registrationForm"]["mobile"].value;
    var missingFields = [];

    // Check for missing fields
    if (firstName === "") missingFields.push("First Name");
    if (lastName === "") missingFields.push("Last Name");
    if (email === "") missingFields.push("Email-ID");
    if (mobile === "") missingFields.push("Mobile Number");

    // Validate first name and last name length
    if (firstName.length > 30) missingFields.push("First Name exceeds 30 characters");
    if (lastName.length > 30) missingFields.push("Last Name exceeds 30 characters");

    // Validate email format
    var emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
    if (email && !emailPattern.test(email)) {
        missingFields.push("Invalid Email-ID format");
    }

    // Validate mobile number (10 digits)
    var mobilePattern = /^\d{10}$/;
    if (mobile && !mobilePattern.test(mobile)) {
        missingFields.push("Mobile Number must be 10 digits");
    }

    // Alert if there are any issues
    if (missingFields.length > 0) {
        alert("Errors: " + missingFields.join(", "));
    }
}
```

```

        return false;
    }

    return true;
}
</script>
</head>
<body>
    <h2 style="text-align:center">STUDENT REGISTRATION FORM</h2>
    <form name="registrationForm" onsubmit="return validateForm()">
        <table align="center" border="1" cellpadding="8">
            <tr>
                <td>FIRST NAME</td>
                <td><input type="text" name="firstName">&nbsp;(max 30 Characters)</td>
            </tr>
            <tr>
                <td>LAST NAME</td>
                <td><input type="text" name="lastName">&nbsp;(max 30 Characters)</td>
            </tr>
            <tr>
                <td>DATE OF BIRTH</td>
                <td>
                    <select>
                        <!-- Days -->
                        <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>
                    </select>
                </td>
            </tr>
        </table>
    </form>

```



```
<option>21</option>
<option>22</option>
<option>23</option>
<option>24</option>
<option>25</option>
<option>26</option>
<option>27</option>
<option>28</option>
<option>29</option>
<option>30</option>
<option>31</option>
</select>
<select>
  <!-- Months -->
  <option>Jan</option>
  <option>Feb</option>
  <option>Mar</option>
  <option>Apr</option>
  <option>May</option>
  <option>Jun</option>
  <option>Jul</option>
  <option>Aug</option>
  <option>Sep</option>
  <option>Oct</option>
  <option>Nov</option>
  <option>Dec</option>
</select>
<select>
  <!-- Years -->
  <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>
    <td>EMAIL-ID</td>
    <td><input type="email" name="email"></td>
</tr>
<tr>
    <td>MOBILE NUMBER</td>
    <td><input type="text" name="mobile">&nbsp;(10 digit number)</td>
</tr>
<tr>
    <td>GENDER</td>
    <td><input type="radio" name="gen" value="MALE">Male<input type="radio"
        name="gen" value="FEMALE">Female</td>
</tr>
<tr>
    <td>ADDRESS</td>
    <td><textarea rows="3" cols="25"></textarea></td>
</tr>
<tr>
    <td>CITY</td>
    <td><input type="text">&nbsp;(max 30 Characters)</td>
</tr>
<tr>
    <td>PINCODE</td>
    <td><input type="text">&nbsp;(6-digit number)</td>
</tr>
<tr>
    <td>STATE</td>
    <td><input type="text">&nbsp;(max 30 Characters)</td>
</tr>
<tr>
    <td>COUNTRY</td>
    <td><input type="text" value="INDIA">&nbsp;</td>
</tr>
<tr>
    <td>HOBBIES</td>
    <td>
        <input type="checkbox">Drawing&nbsp;
        <input type="checkbox">Singing&nbsp;
        <input type="checkbox">Dancing&nbsp;
        <input type="checkbox">Sketching<br>
        <input type="checkbox">Others&nbsp;<input type="text">
    </td>
</tr>

```

```

</td>
</tr>
<tr>
<td>QUALIFICATION</td>
<td>
<table>
<tr>
<th>SL NO:&nbsp;</th>
<th>Examination&nbsp;</th>
<th>Board&nbsp;</th>
<th>Percentage&nbsp;</th>
<th>Year of Passing&nbsp;</th>
</tr>
<tr>
<th>1</th>
<th>Class X</th>
<td><input type="text"></td>
<td><input type="text"></td>
<td><input type="text"></td>
</tr>
<tr>
<th>2</th>
<th>Class XII</th>
<td><input type="text"></td>
<td><input type="text"></td>
<td><input type="text"></td>
</tr>
<tr>
<th>3</th>
<th>Graduation</th>
<td><input type="text"></td>
<td><input type="text"></td>
<td><input type="text"></td>
</tr>
<tr>
<th>4</th>
<th>Masters</th>
<td><input type="text"></td>
<td><input type="text"></td>
<td><input type="text"></td>
</tr>
<tr>
<td></td>
<td></td>

```

```

        <td><center>(10 char max)</center></td>
        <td><center>(upto 2 decimal)</center></td>
    </tr>
</table>
</td>
</tr>
<tr>
    <td>COURSES<br>APPLIED FOR</td>
    <td>MCA<input type="radio" name="cou">M.Tech<input type="radio"
        name="cou">M.Sc.<input type="radio" name="cou">P.hD<input
        type="radio" name="cou"></td>
</tr>
<tr>
    <td>TYPE YOUR PASSWORD</td>
    <td><input type="password">&nbsp;(Max. 30 Characters)</td>
</tr>
<tr>
    <td>UPLOAD YOUR PHOTO</td>
    <td><input type="file"></td>
</tr>
<tr>
    <td>DATE OF TC</td>
    <td><input type="date"></td>
</tr>
<tr>
    <td colspan="2"><center><input type="submit" value="SUBMIT">&nbsp;<input
        type="reset"></center></td>
</tr>
</table>
</body>
</html>

```

RESULT

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