

# MODULE: 2

## SE – HTML & CSS

### 1. Define the terms: Website, Webpage, Web browser, Web server, HTML, CSS .

- **Website:** A website is a collection of web pages and related content that is identified by a common domain name and published on at least one web.
- **Webpage:** A website typically consists of many web pages linked.
- **Web browser:** A web browser is an application for accessing websites. When a user requests a web page from a particular website, the browser retrieves its files from a web server and then displays the page on the user's screen. Browsers are used on a range of devices, including desktops, laptops, tablets, and smartphones
- **Web server:** A web server is a computer system combined with software used for the storing and serving of website files.
- **HTML:** HyperText Markup Language is the standard markup language for documents designed to be displayed in a web browser. It defines the content and structure of web content.
- **CSS:** Cascading Style Sheets is a style sheet language used for styling of a document written in a markup language such as HTML. It basically styles the element as how we want in a webpage.

## 2. Create a webpage to show “This is my first HTML page”

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>

  <h2>This is my first HTML page</h2>

</body>
</html>
```



**This is my first HTML page**

---

### 3. Display top 10 IT companies list in html webpage

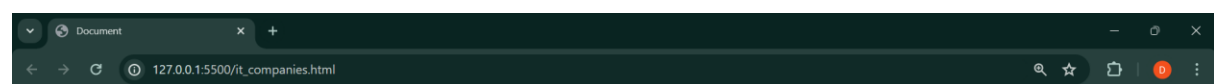
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>

  <div>
    <form>
      <label>Choose an IT Company:</label><br><br>

      <select name="it">
        <option value="microsoft">Microsoft</option>
        <option value="google">Google</option>
        <option value="apple">Apple</option>
        <option value="amazon">Amazon</option>
        <option value="meta">Meta</option>
      </select>

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

</body>
</html>
```



1. Microsoft Corporation
  2. Apple
  3. Meta
  4. Amazon
  5. TCS
  6. Infosys
  7. Oracle
  8. IBM
  9. Accenture
  10. SAP
-

## 4. Create a dropdown list

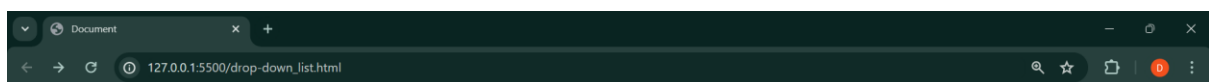
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>

  <div>
    <form>
      <label>Choose an IT Company:</label><br><br>

      <select name="it">
        <option value="microsoft">Microsoft</option>
        <option value="google">Google</option>
        <option value="apple">Apple</option>
        <option value="amazon">Amazon</option>
        <option value="meta">Meta</option>
      </select>

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

</body>
</html>
```



Choose an IT Company:

Microsoft Submit

## 5. Create a Table Of college Management system using row span & colspan.

```
6. <!DOCTYPE html>
7. <html lang="en">
8. <head>
9.     <meta charset="UTF-8">
10.    <meta name="viewport" content="width=device-width, initial-scale=1.0">
11.    <title>College Management System</title>
12.</head>
13.<body style="font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;">
14.
15.    <div>
16.        <h2 style="text-align: center;">College Management System</h2>
17.
18.        <table border="1" cellspacing="5px" cellpadding="10px"
19.            style="margin: auto; width: 80%;">
20.            <tr>
21.                <th rowspan="2">Department</th>
22.                <th colspan="2">Staff</th>
23.                <th rowspan="2">Courses</th>
24.                <th rowspan="2">Students</th>
25.            </tr>
26.            <tr>
27.                <th>Professors</th>
28.                <th>Support Staff</th>
29.            </tr>
30.            <tr>
31.                <td rowspan="3">Computer Science</td>
32.                <td>Prof. John Doe</td>
33.                <td rowspan="3">Ms. Jane Smith</td>
34.                <td>Algorithms</td>
35.                <td>120</td>
36.            </tr>
37.            <tr>
38.                <td>Prof. Emily Johnson</td>
39.                <td>Data Structures</td>
40.                <td>100</td>
41.            </tr>
42.            <tr>
43.                <td>Prof. Michael Brown</td>
44.                <td>Machine Learning</td>
45.                <td>80</td>
46.            </tr>
47.            <tr>
48.                <td rowspan="2">Mathematics</td>
```

```

48.         <td>Prof. Laura Wilson</td>
49.         <td rowspan="2">Mr. Robert White</td>
50.         <td>Calculus</td>
51.         <td>150</td>
52.     </tr>
53.     <tr>
54.         <td>Prof. William Davis</td>
55.         <td>Statistics</td>
56.         <td>130</td>
57.     </tr>
58.     <tr>
59.         <td rowspan="2">Physics</td>
60.         <td>Prof. Richard Clark</td>
61.         <td rowspan="2">Mr. Brian Harris</td>
62.         <td>Mechanics</td>
63.         <td>110</td>
64.     </tr>
65.     <tr>
66.         <td>Prof. Susan Lewis</td>
67.         <td>Thermodynamics</td>
68.         <td>90</td>
69.     </tr>
70. </table>
71. </div>
72.
73.</body>
74.</html>

```



### College Management System

Department	Staff		Courses	Students
	Professors	Support Staff		
Computer Science	Prof. John Doe	Ms. Jane Smith	Algorithms	120
	Prof. Emily Johnson		Data Structures	100
	Prof. Michael Brown		Machine Learning	80
Mathematics	Prof. Laura Wilson	Mr. Robert White	Calculus	150
	Prof. William Davis		Statistics	130
Physics	Prof. Richard Clark	Mr. Brian Harris	Mechanics	110
	Prof. Susan Lewis		Thermodynamics	90

## 6. Create below table using HTML table tags.

Table 1:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <style>
    .r{
      background-color: rgb(227, 12, 12);
    }

    .b{
      background-color: rgb(57, 57, 57);
    }
  </style>
</head>
<body style="background-color: rgb(0, 161, 0);">
  <div style="text-align: center;">
    <label style="font-size: 24px;"><b>European
Roulette</b></label><br><br>
    <table border="1" cellspacing="0" cellpadding="25" style="width:
50%;border-color: aliceblue;margin: auto;color: aliceblue;">
      <tr>
        <td rowspan="5">0</td>
        <td class="r">3</td>
        <td class="b">6</td>
        <td class="r">9</td>
        <td class="r">12</td>
        <td class="b">15</td>
        <td class="r">18</td>
        <td class="r">21</td>
        <td class="b">24</td>
        <td class="r">27</td>
        <td class="r">30</td>
        <td class="b">33</td>
        <td class="r">36</td>
        <td>2to1</td>
      </tr>
      <tr>
        <td class="b">2</td>
        <td class="r">5</td>
        <td class="b">8</td>
        <td class="b">11</td>
        <td class="r">14</td>
```

```

        <td class="b">17</td>
        <td class="b">20</td>
        <td class="r">23</td>
        <td class="b">26</td>
        <td class="b">29</td>
        <td class="r">32</td>
        <td class="b">35</td>
        <td>2to1</td>
    </tr>
    <tr>
        <td class="r">1</td>
        <td class="b">4</td>
        <td class="r">7</td>
        <td class="b">10</td>
        <td class="b">13</td>
        <td class="r">16</td>
        <td class="r">19</td>
        <td class="b">22</td>
        <td class="r">25</td>
        <td class="b">28</td>
        <td class="b">31</td>
        <td class="r">34</td>
        <td>2to1</td>
    </tr>
    <tr>
        <td colspan="4">1st12</td>
        <td colspan="4">2nd12</td>
        <td colspan="4">3rd12</td>
        <td rowspan="2"></td>
    </tr>
    <tr>
        <td colspan="2">1to18</td>
        <td colspan="2">EVEN</td>
        <td colspan="2" class="r"></td>
        <td colspan="2" class="b"></td>
        <td colspan="2">OOD</td>
        <td colspan="2">19to36</td>
    </tr>
</table>
</div>
</body>
</html>

```



Document 127.0.0.1:5500/table2.html

European Roulette

0	3	6	9	12	15	18	21	24	27	30	33	36	2to1
	2	5	8	11	14	17	20	23	26	29	32	35	2to1
	1	4	7	10	13	16	19	22	25	28	31	34	2to1
	1st12				2nd12				3rd12				
	1to18		EVEN						OOD		19to36		

Table 2:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <div style="text-align: center;border: 1px solid;width: fit-
content;margin: auto;padding: 7px;">
    <label>CSS3 Browser Support (latest browser versions)</label>
    <table border="1" cellspacing="2" cellpadding="10">
      <tr>
        <th>CSS Property</th>
        <th>Internet Explorer</th>
        <th>FireFox</th>
        <th>Chrome</th>
        <th>Safari</th>
        <th>Opera</th>
      </tr>

      <tr>
        <th>Border Radius</th>
        <td>YES</td>
        <td>YES</td>
        <td>YES</td>
```

```

        <td>YES</td>
        <td>YES</td>
    </tr>

    <tr>
        <th>Box Shadow</th>
        <td>YES</td>
        <td>YES</td>
        <td>YES</td>
        <td>YES</td>
        <td>YES</td>
    </tr>

    <tr>
        <th>CSS Animation</th>
        <td>NO</td>
        <td>NO</td>
        <td>YES</td>
        <td>YES</td>
        <td>NO</td>
    </tr>
</table>
</div>
</body>
</html>

```



CSS Property	Internet Explorer	FireFox	Chrome	Safari	Opera
Border Radius	YES	YES	YES	YES	YES
Box Shadow	YES	YES	YES	YES	YES
CSS Animation	NO	NO	YES	YES	NO

## 7. Create Registration form using HTML, CSS.

Html:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="container">
    <form method="post">
      <h2><span>Re</span>gistration</h2><br>

      <div class="regi">
        <section class="sec1">
          <label><b>Full Name</b></label><br>
          <input type="text" placeholder="Enter your name" required
pattern="[a-zA-Z]+"><br><br>

          <label><b>Email</b></label><br>
          <input type="email" placeholder="Enter your email"
required><br><br>

          <label><b>Password</b></label><br>
          <input type="password" placeholder="Enter your passowrd"
required><br><br>
        </section>

        <section class="sec2">
          <label><b>Username</b></label><br>
          <input type="text" placeholder="Enter your username"
required><br><br>

          <label><b>Phone Number</b></label><br>
          <input type="text" placeholder="Enter your number"
required><br><br>

          <label><b>Confirm Password</b></label><br>
          <input type="password" placeholder="Confirm your password"
required><br><br>
        </section>
      </div>

      <section class="sec3">
```

```

        <label><b>Gender</b></label><br>

        <div class="gen">
            <input type="radio" name="G" id="">
            <label>Male</label>

            <input type="radio" name="G" id="">
            <label>Female</label>

            <input type="radio" name="G" id="">
            <label>Prefer not to say</label>
        </div>
        <br><br>
        <button type="submit">Register</button>
    </section>
</form>
</div>
</body>
</html>

```

## CSS:

```

*{
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}

.container{
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
    height: 100vh;
    background: linear-gradient(45deg,rgba(200, 32, 99, 0.531),rgba(255, 166,
0, 0.728)),url(mountain.jpg);
    background-size: 100% 100%;
    display: flex;
    justify-content: center;
    align-items: center;
}

form
{
    background: #fff;
    min-width: 45%;
    border-radius: 10px;
    padding: 50px 70px;
}

span{

```

```
    position: relative;
}

span::after{
    content: '';
    position: absolute;
    bottom: -5px;
    left: 0;
    width: 27px;
    height: 3px;
    background: linear-gradient(to right,rgba(200, 32, 99, 0.531),rgba(255,
166, 0, 0.728));
}

.regi{
    display: flex;
    flex-wrap: wrap;
    justify-content: space-between;
}

.regi input{
    margin-top: 7px;
}

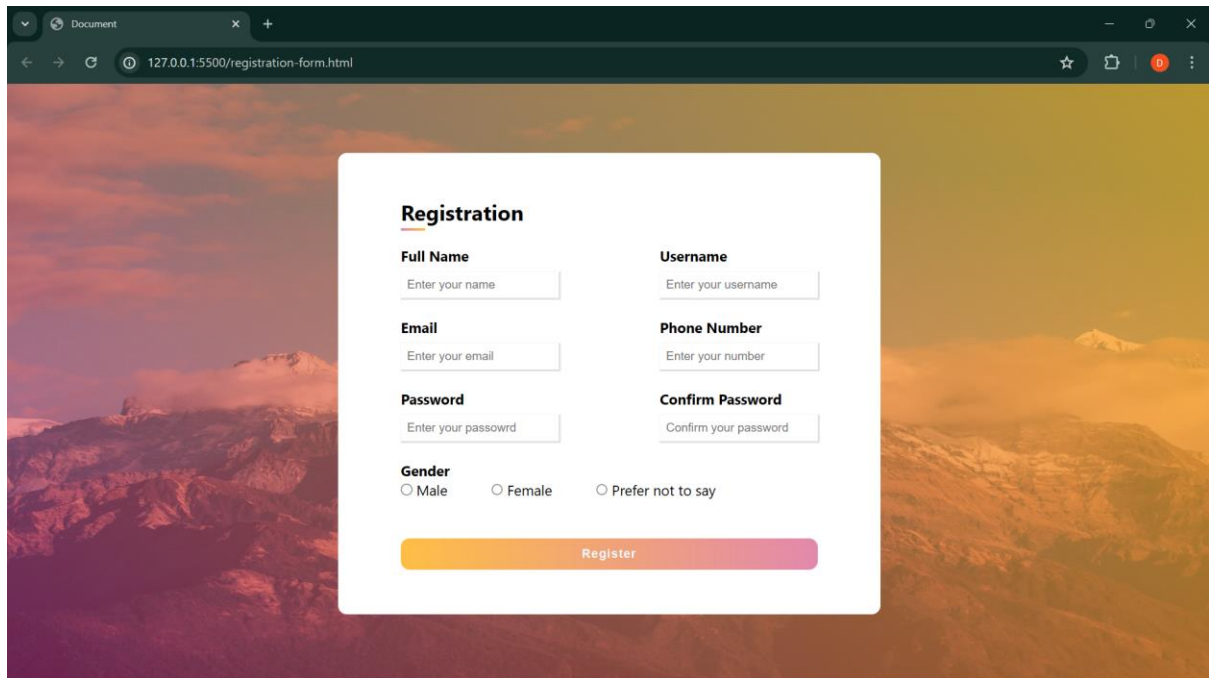
input{
    padding: 7px;
    box-shadow: 1px 1px 1px 1px rgb(221, 221, 221);
    border: none;
    outline: none;
}

.sec3 input{
    box-shadow: none;
}

.gen label{
    padding-right: 45px;
}

button{
    color: aliceblue;
    border: none;
    width: 100%;
    height: 35px;
    border-radius: 10px;
    background: linear-gradient(to left,rgba(200, 32, 99, 0.531),rgba(255,
166, 0, 0.728));
```

```
font-weight: bold;
letter-spacing: 1px;
}
```



## 8. In how many ways can a CSS be integrated as a web page?

CSS can be added to HTML documents in 3 ways:

Inline - by using the style attribute inside HTML elements.

Internal - by using a <style> element in the <head> section

External - by using a <link> element to link to an external CSS file

## 9. Create simple three pages using External CSS, Internal CSS, and Inline CSS.

### 1. Inline CSS:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
```

```

    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>

    <p style="color: blue;">Lorem, ipsum dolor sit amet consectetur
adipisicing elit. Totam, voluptates.</p>

</body>
</html>

```

## 2. Internal CSS:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
        p{
            color: blue;
        }
    </style>
</head>
<body>

    <p>Lorem ipsum, dolor sit amet consectetur adipisicing elit.
Exercitationem, eius.</p>

</body>
</html>

```

## 3. External CSS:

### HTML FILE:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <link rel="stylesheet" href="file.css">
</head>
<body>

```

```
<p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Sed,
dolor?</p>

</body>
</html>
```

### CSS FILE:

```
p{
    color: blue;
}
```

## 10.Create below page using HTML CSS.

### HTML FILE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>

    <div class="container">
        <h2 class="red">Individual Registration</h2>

        <div class="part1">
            <h5 class="red">User particulaers</h5>

            <div class="regi1">
                <label style="padding-left: 70px;">Login ID</label>
                <input type="text"><br>
                <label style="padding-left: 62px;">Password</label>
                <input type="password"><br>
                <label>Confirm Password</label>
                <input type="password"><br>
            </div>
        </div>
    </div>
```





```

        </select>
    </div>
    <div class="btm_right">
        <label>Nick Name</label>
        <input type="text">
    </div>
</div>
</div>

<div class="note">
    <h4 class="red">DECLARATION</h4>
    <b><p>I have read, understood and hereby agree to the Terms and
Conditions in respect of all products and channels.</p>
    <p>I unserstood that any changes in the terms and conditions
applicable to this relationship would be made available to me on request at
any IOB branches. I confirm that all account uder this login name are operated
singly and in case of joint account operated by either or survivor/anyone or
survivors(s) under his/her joint name respectively. I do hereby declare that
information furnished in this form is true to the best of my knowledge and
belief.</p></b>
    <div class="btn">
        <input type="submit" value="Submit">
        <button type="reset">Reset</button>
    </div>
</div>
</div>
</body>
</html>

```

## CSS FILE:

```

*{
    margin: 0;
    padding: 0px;
    box-sizing: border-box;
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
    background-color: #cdfffe;
    color: rgb(0, 0, 172);
}

input{
    outline: none;
}

select{

```

```
padding-right: 70px;
}

label,input,select{
margin-bottom: 7px;
}

h2{
background-color: rgb(44, 44, 220);
text-align: center;
}

.red{
color: rgb(208, 0, 0);
font-weight: bold;
font-size: 16px;
}

.regi1{
float: right;
width: 60%;
}

.part1,.part2,.part3{
padding: 30px 10px;
}

.part2_flex,.part3_flex{
display: flex;
width: 100%;
flex-wrap: wrap;
justify-content: space-evenly;
}

.part2{
padding-top: 80px;
}

input[type=submit],button[type=reset]{
padding: 4px 10px;
color: aliceblue;
background-color: #3babc7;
font-weight: bold;
cursor: pointer;
}

button[type=reset]{
margin-left: 10px;
}
```

```

}

.btn{
  text-align: center;
  padding-top: 30px;
}

```

**Individual Registration**

**User particulaers**

Login ID

Password

Confirm Password

**Personal Particulars**

Salutation

First Name

Middle Name

Last Name

Resident Status

Country

Email-Id

Mobile Number

**Account Particulars**

15 Digit Account No

Nick Name

Fund Transfer

**DECLARATION**

I have read, understood and hereby agree to the Terms and Conditions in respect of all products and channels. I unsertstood that any changes in the terms and conditions applicable to this relationship would be made available to me on request at any IOB branches. I confirm that all account uder this login name are operated singly and in case of joint account operated by either or survivor/anyone or survivors(s) under his/her joint name respectively. I do hereby declare that information furnished in this form is true to the best of my knowledge and belief.

## 11. Create link-pseudo classes using external CSS, to format links on the pages.

### HTML FILE:

```

<a href="https://developer.mozilla.org">MDN Web Docs</a>

<p>Pages that you might have visited:</p>

<a href="https://www.youtube.com/">YouTube</a>

```

## CSS FILE:

```
p{
font-weight: bold;
}
a:link{
color: forestgreen;
text-decoration-color: hotpink;
}
```

## 12. Create a dynamic pseudo class using HTML, CSS.

HTML code:

```
<button class="button">Hover over me</button>
```

CSS code:

```
.button {
    background-color: rgb(152, 152, 224);
    border: none;
    color: white;
    padding: 15px 32px;
    text-decoration: none;
    transition-duration: 0.4s;
    cursor: pointer;
}

.button:hover {
    background-color: white;
    color: black;
    border: 2px solid #6084d1;
}
```