

## WEB TECHNOLOGIES

1. Write a program using basic such as heading tag, div tag, bold tag, italic tag, underline tag, break tag, small tag, big tag, typewriter, preformatted tag, subscript tag, superscript tag, blockquote tag, address tag.

```
2. <!DOCTYPE html>
3. <html lang="en">
4. <head>
5.     <meta charset="UTF-8">
6.     <meta name="viewport" content="width=device-width, initial-
    scale=1.0">
7.     <title>Basic Tags in HTML</title>
8.     <style>
9.         /* Styling for the heading */
10.        body{
11.            background-color: black;
12.        }
13.        h1 {
14.            text-align: center;
15.            color: #ff6600; /* Orange color */
16.            font-family: Arial, sans-serif;
17.            text-shadow: 2px 2px 4px rgba(0, 0, 0, 0.2);
18.        }
19.
20.        /* Different colors for each div */
21.        .section1 {
22.            background-color: skyblue; /* Light Blue */
23.            padding: 10px;
24.            border-radius: 8px;
25.            margin: 10px;
26.        }
27.
28.        .section2 {
29.            background-color:lightgreen; /* Light Green */
30.            padding: 10px;
31.            border-radius: 8px;
32.            margin: 10px;
33.        }
34.
35.        .section3 {
36.            background-color: pink; /* Light Orange */
37.            padding: 10px;
38.            border-radius: 8px;
```

```

39.         margin: 10px;
40.     }
41.
42.     .section4 {
43.         background-color:lightsalmon; /* Light Red */
44.         padding: 10px;
45.         border-radius: 8px;
46.         margin: 10px;
47.     }
48. </style>
49.</head>
50.<body>
51.
52. <h1>Use of Some Basic Tags in HTML</h1>
53.
54. <div class="section1">
55.     <p><b>This is bold text</b></p>
56.     <p><i>This is italic text</i></p>
57.     <p><u>This is underlined text</u></p>
58.     <p>This is <del>strikethrough</del> text</p>
59.     <p><small>This is small text</small></p>
60.     <p><strong>This is strong (important) text</strong></p>
61.     <p><big>This is big text</big></p>
62.     <p><tt>This is typewriter text</tt></p>
63. </div>
64.
65. <div class="section2">
66.     <pre>
67.         This is preformatted text.
68.     </pre>
69. </div>
70.
71. <div class="section3">
72.     <p>H<sub>2</sub>O (Subscript example)</p>
73.     <p>X<sup>2</sup> + Y<sup>2</sup> = Z<sup>2</sup> (Superscript
       example)</p>
74. </div>
75. <div class="section4">
76.     <p>Here is a line break:<br>This text appears on a new line.</p>
77. </div>
78.
79.</body>
80.</html>
81.

```

## Output:

### Use of Some Basic Tags in HTML

This is bold text

*This is italic text*

This is underlined text

~~This is strikethrough text~~

This is small text

**This is strong (important) text**

This is big text

`This is typewriter text`

```
This is preformatted text.
```

H<sub>2</sub>O (Subscript example)

X<sup>2</sup> + Y<sup>2</sup> = Z<sup>2</sup> (Superscript example)

Here is a line break:  
This text appears on a new line.

## 2. Write a program for making ordered list, unordered list and definition list.

```
1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
4.     <meta charset="UTF-8">
5.     <meta name="viewport" content="width=device-width, initial-
      scale=1.0">
6.     <title>Lists in HTML</title>
7.     <style>
8.         body {
9.             font-family: Arial, sans-serif;
10.            background-color: darkseagreen;
11.            margin: 20px;
12.            padding: 20px;
13.        }
14.        h2 {
15.            color: white;
16.        }
17.        .container {
18.            background: green;
19.            padding: 15px;
20.            border-radius: 8px;
21.            box-shadow: 2px 2px 10px rgba(0, 0, 0, 0.2);
22.            margin-bottom: 20px;
23.        }
24.        ol {
25.            background:white;
26.            padding: 10px;
27.            border-radius: 5px;
28.        }
29.        ul {
30.            background:lightgreen;
31.            padding: 10px;
32.            border-radius: 5px;
33.        }
34.        dl {
35.            background: #fbe7c6;
36.            padding: 10px;
37.            border-radius: 5px;
38.        }
39.        dt {
40.            font-weight: bold;
41.            color: #333;
42.        }
43.        dd {
44.            margin-left: 20px;
```

```

45.     }
46.   </style>
47.</head>
48.<body>
49.
50.   <h1>Lists in HTML</h1>
51.
52.   <!-- Ordered List -->
53.   <div class="container">
54.     <h2>Ordered List (Numbered)</h2>
55.     <ol>
56.       <li>First Item</li>
57.       <li>Second Item</li>
58.       <li>Third Item</li>
59.       <li>Fourth Item</li>
60.     </ol>
61.   </div>
62.
63.   <!-- Unordered List -->
64.   <div class="container">
65.     <h2>Unordered List (Bulleted)</h2>
66.     <ul>
67.       <li>Apple</li>
68.       <li>Banana</li>
69.       <li>Orange</li>
70.       <li>Mango</li>
71.     </ul>
72.   </div>
73.
74.   <!-- Definition List -->
75.   <div class="container">
76.     <h2>Definition List</h2>
77.     <dl>
78.       <dt>HTML</dt>
79.       <dd>Stands for HyperText Markup Language</dd>
80.
81.       <dt>CSS</dt>
82.       <dd>Stands for Cascading Style Sheets</dd>
83.
84.       <dt>JS</dt>
85.       <dd>Stands for Javascript</dd>
86.     </dl>
87.   </div>
88.
89.</body>
90.</html>
91.

```

## Output:

### Lists in HTML

#### Ordered List (Numbered)

1. First Item
2. Second Item
3. Third Item
4. Fourth Item

#### Unordered List (Bulleted)

- Apple
- Banana
- Orange
- Mango

#### Definition List

- |                                      |  |
|--------------------------------------|--|
| HTML                                 |  |
| Stands for HyperText Markup Language |  |
| CSS                                  |  |
| Stands for Cascading Style Sheets    |  |
| JS                                   |  |
| Stands for Javascript                |  |

### 3. Write a program for nesting lists.

```
1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
4.     <meta charset="UTF-8">
5.     <meta name="viewport" content="width=device-width, initial-
      scale=1.0">
6.     <title>Nested Ordered and Unordered List</title>
7.     <style>
8.         body {
9.             font-family: Arial, sans-serif;
10.            background-color: black;
11.            margin: 20px;
12.            padding: 20px;
13.        }
14.        h1 {
15.            color: #ff6600;
16.            text-align: center;
17.        }
18.        .container {
19.            background: #fff;
20.            padding: 15px;
21.            border-radius: 8px;
22.            box-shadow: 2px 2px 10px rgba(0, 0, 0, 0.2);
23.            margin-bottom: 20px;
24.        }
25.        ol, ul {
26.            padding: 10px;
27.            border-radius: 5px;
28.        }
29.        ol {
30.            background: #f0f8ff;
31.        }
32.        ul {
33.            background: #d3f9d8;
34.        }
35.    </style>
36.</head>
37.<body>
38.
39.    <h1>Nested Ordered and Unordered List</h1>
40.
41.    <!-- Nested Ordered List -->
42.    <div class="container">
43.        <h2>Nested Ordered List</h2>
44.        <ol>
```

```

45.         <li>Introduction
46.             <ol>
47.                 <li>What is HTML?</li>
48.                 <li>Basic Structure of HTML</li>
49.             </ol>
50.         </li>
51.         <li>CSS Basics
52.             <ol>
53.                 <li>Selectors</li>
54.                 <li>Properties</li>
55.                 <li>CSS Box Model</li>
56.             </ol>
57.         </li>
58.         <li>JavaScript Basics
59.             <ol>
60.                 <li>Variables</li>
61.                 <li>Functions</li>
62.                 <li>Events</li>
63.             </ol>
64.         </li>
65.     </ol>
66. </div>
67.
68. <!-- Nested Unordered List -->
69. <div class="container">
70.     <h2>Nested Unordered List</h2>
71.     <ul>
72.         <li>Fruits
73.             <ul>
74.                 <li>Apple</li>
75.                 <li>Banana</li>
76.                 <li>Orange</li>
77.             </ul>
78.         </li>
79.         <li>Vegetables
80.             <ul>
81.                 <li>Carrot</li>
82.                 <li>Broccoli</li>
83.                 <li>Spinach</li>
84.             </ul>
85.         </li>
86.         <li>Dairy Products
87.             <ul>
88.                 <li>Milk</li>
89.                 <li>Cheese</li>
90.                 <li>Butter</li>
91.             </ul>
92.         </li>

```



```
93.         </ul>
94.     </div>
95.
96. </body>
97. </html>
98.
```

## Output:

### Nested Ordered and Unordered List

#### Nested Ordered List

1. Introduction
  1. What is HTML?
  2. Basic Structure of HTML
2. CSS Basics
  1. Selectors
  2. Properties
  3. CSS Box Model
3. JavaScript Basics
  1. Variables
  2. Functions
  3. Events

#### Nested Unordered List

- Fruits
  - Apple
  - Banana
  - Orange
- Vegetables
  - Carrot
  - Broccoli
  - Spinach
- Dairy Products
  - Milk
  - Cheese
  - Butter

#### 4. Write a program showing horizontal rule in html.

```
1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
4.     <meta charset="UTF-8">
5.     <meta name="viewport" content="width=device-width, initial-
      scale=1.0">
6.     <title>Horizontal Rule Example</title>
7.     <style>
8.         .custom-hr {
9.             border: 2px solid black; /* Green color */
10.            width: 80%;
11.            margin: 20px auto;
12.        }
13.    </style>
14.</head>
15.<body>
16.
17.    <h2>Above the Horizontal Rule</h2>
18.    <hr class="custom-hr">
19.    <h2>Below the Horizontal Rule</h2>
20.
21.</body>
22.</html>
```

#### Output:

Above the Horizontal Rule

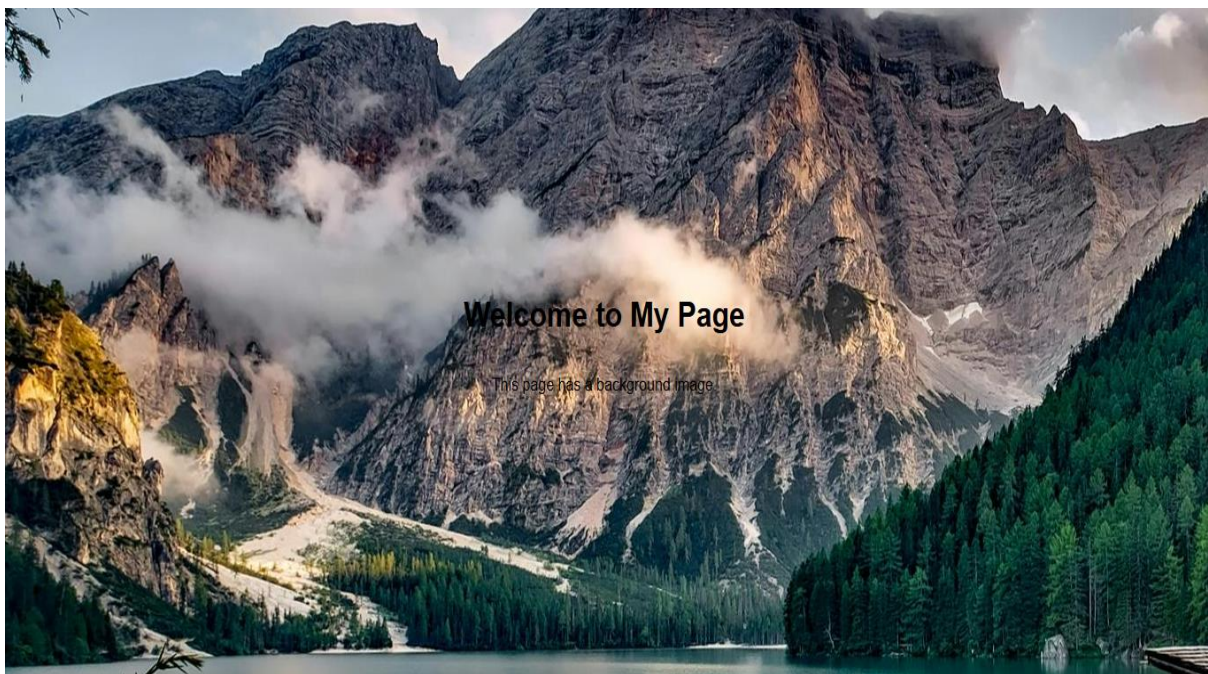


Below the Horizontal Rule

## 5. Write a program to add background colour and image using only html.

```
1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
4.     <meta charset="UTF-8">
5.     <meta name="viewport" content="width=device-width, initial-
      scale=1.0">
6.     <title>Background Color & Image</title>
7. </head>
8. <body style="background-color: lightblue; background-image:
      url('/images/image.jpg'); background-position: left; background-repeat:
      no-repeat; height: 100vh; margin: 0; display: flex; flex-direction:
      column; align-items: center; justify-content: center; color: black;
      font-family: Arial, sans-serif;">
9.     <h1>Welcome to My Page</h1>
10.    <p>This page has a background image.</p>
11.</body>
12.</html>
```

### Output:

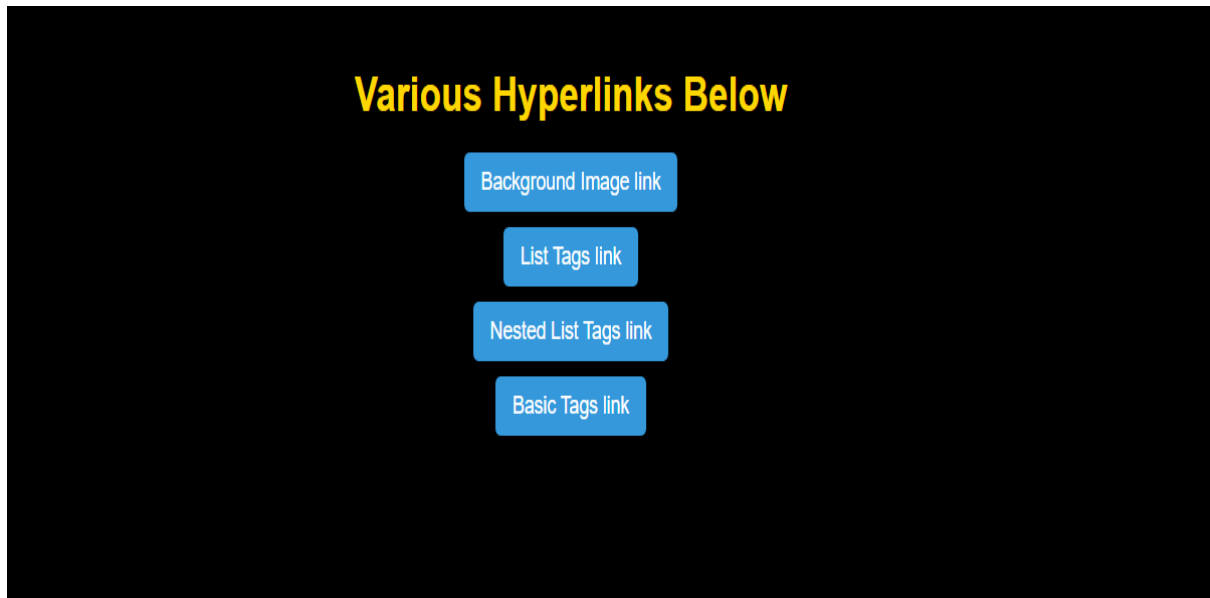


## 6. Write a program using various hyperlinks with different attributes.

```
1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
4.     <meta charset="UTF-8">
5.     <meta name="viewport" content="width=device-width, initial-
      scale=1.0">
6.     <title>Hyperlink Example</title>
7.     <style>
8.         body {
9.             font-family: Arial, sans-serif;
10.            background-color: black; /* Light blue background */
11.            text-align: center;
12.            padding: 50px;
13.        }
14.
15.        h1 {
16.            color: gold; /* Darker blue */
17.            margin-bottom: 20px;
18.        }
19.
20.        p {
21.            margin: 10px 0;
22.        }
23.
24.        a {
25.            display: inline-block;
26.            background-color: #3498db; /* Blue button */
27.            color: white;
28.            text-decoration: none;
29.            padding: 10px 15px;
30.            border-radius: 5px;
31.            transition: 0.3s ease-in-out;
32.        }
33.
34.        a:hover {
35.            background-color: #2980b9; /* Darker blue on hover */
36.        }
37.    </style>
38.</head>
39.<body>
40.    <h1>Various Hyperlinks Below</h1>
41.    <p><a href="BGImageAndColor.html">Background Image link</a></p>
42.    <p><a href="Listtags.html">List Tags link</a></p>
43.    <p><a href="NestedLists.html">Nested List Tags link</a></p>
44.    <p><a href="BasicTags.html">Basic Tags link</a></p>
```

```
45.</body>
46.</html>
```

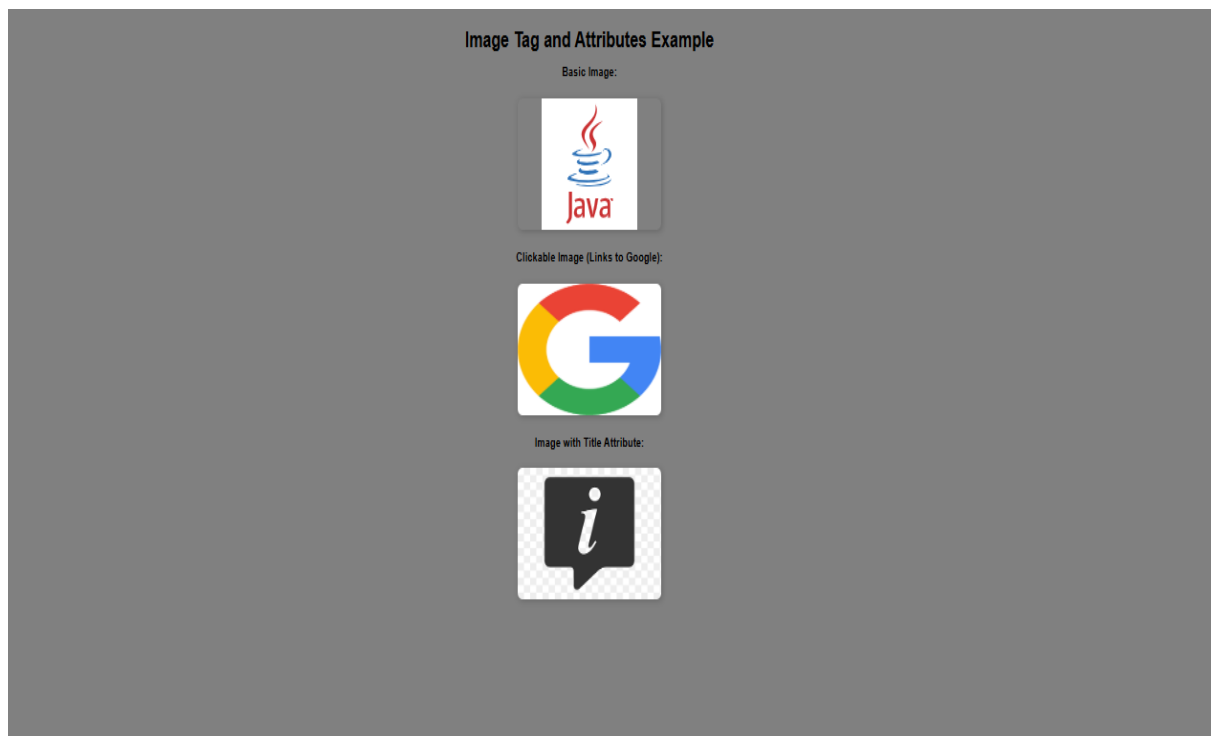
## Output:



## 7. Write a program using image tag and its attributes.

```
1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
4.     <meta charset="UTF-8">
5.     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6.     <title>Image Tag Example</title>
7.     <style>
8.         body {
9.             font-family: Arial, sans-serif;
10.            text-align: center;
11.            background-color: gray;
12.            padding: 20px;
13.        }
14.        img {
15.            border-radius: 10px;
16.            margin: 10px;
17.            box-shadow: 2px 2px 10px rgba(0, 0, 0, 0.2);
18.        }
19.    </style>
20.</head>
21.<body>
22.
23.    <h1>Image Tag and Attributes Example</h1>
24.
25.    <!-- Basic Image -->
26.    <h3>Basic Image:</h3>
27.    
28.
29.    <!-- Clickable Image (Link) -->
30.    <h3>Clickable Image (Links to Google):</h3>
31.    <a href="https://www.google.com" target="_blank">
32.        
33.    </a>
34.
35.    <!-- Image with Title Attribute (Tooltip) -->
36.    <h3>Image with Title Attribute:</h3>
37.    
38.
39.</body>
40.</html>
41.
```

## Output:



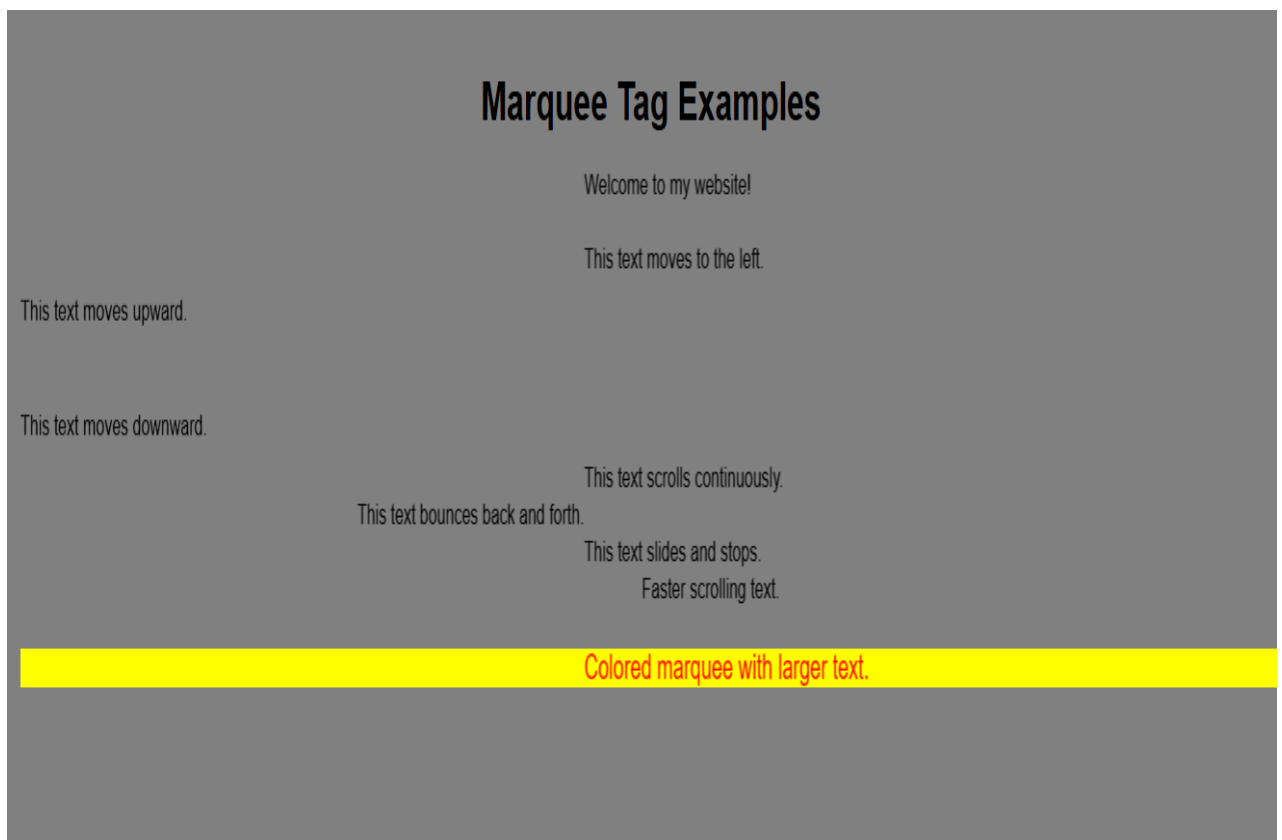
## 8. Write a program to use marquee tags using different Attributes.

```
1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
4.     <meta charset="UTF-8">
5.     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6.     <title>Marquee Tag Example</title>
7.     <style>
8.         body {
9.             font-family: Arial, sans-serif;
10.            text-align: center;
11.            background-color: gray;
12.            padding: 20px;
13.        }
14.    </style>
15.</head>
16.<body>
17.
18.    <h1>Marquee Tag Examples</h1>
19.
20.    <!-- Basic Scrolling Text -->
21.    <marquee>Welcome to my website!</marquee>
22.
23.    <!-- Marquee with Direction -->
24.    <marquee direction="right">This text moves to the right.</marquee>
25.    <marquee direction="left">This text moves to the left.</marquee>
26.    <marquee direction="up" height="50">This text moves upward.</marquee>
27.    <marquee direction="down" height="50">This text moves
downward.</marquee>
28.
29.    <!-- Marquee with Behavior -->
30.    <marquee behavior="scroll">This text scrolls continuously.</marquee>
31.    <marquee behavior="alternate">This text bounces back and
forth.</marquee>
32.    <marquee behavior="slide">This text slides and stops.</marquee>
33.
34.    <!-- Marquee with Speed and Scroll Amount -->
35.    <marquee scrollamount="10">Faster scrolling text.</marquee>
36.    <marquee scrollamount="2">Slower scrolling text.</marquee>
37.
38.    <!-- Marquee with Background Color -->
39.    <marquee style="background-color: yellow; color: red; font-size:
20px;">
40.        Colored marquee with larger text.
41.    </marquee>
42.
```



```
43. <!-- Marquee with Image -->
44. <marquee direction="right">
45.     
46. </marquee>
47.
48. </body>
49. </html>
```

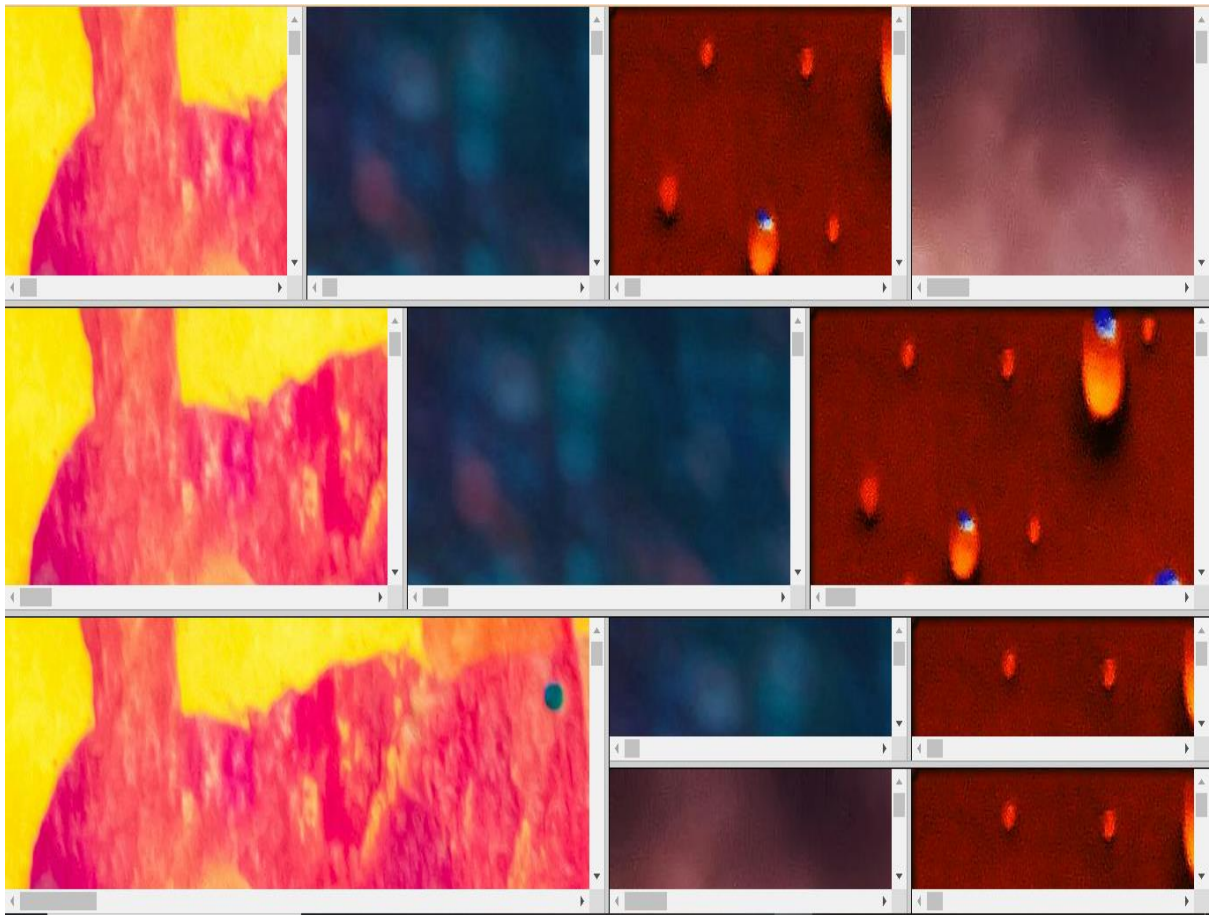
## Output:



## 9. Write a program by showing frame allocation in html.

```
1. <!DOCTYPE html>
2. <html>
3.
4. <head>
5.     <title>HTML Frames Example</title>
6. </head>
7.
8. <frameset rows="33%, 34%, 33%">
9.
10.     <frameset cols="25%, 25%, 25%, 25%" />
11.         <frame src="/images/frame1.jpg" />
12.         <frame src="/images/frame2.jpg" />
13.         <frame src="/images/frame3.jpg" />
14.         <frame src="/images/frame4.jpg" />
15.     </frameset>
16.
17. <frameset cols="33%, 33%, 33%">
18.     <frame src="/images/frame1.jpg" />
19.     <frame src="/images/frame2.jpg" />
20.     <frame src="/images/frame3.jpg" />
21. </frameset>
22.
23. <frameset cols="50%, 50%">
24.     <frame src="/images/frame1.jpg" />
25. <frameset rows="50%, 50%">
26.     <frameset cols="50%, 50%">
27.         <frame src="/images/frame2.jpg" />
28.         <frame src="/images/frame3.jpg" />
29.     </frameset>
30.     <frameset cols="50%, 50%">
31.         <frame src="/images/frame4.jpg" />
32.         <frame src="/images/frame3.jpg" />
33.     </frameset>
34. </frameset>
35. </frameset>
36.
37. </frameset>
38.
39. </html>
```

**Output:**



## 10. Write a program to show table and its attributes.

```
1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
4.     <meta charset="UTF-8">
5.     <meta name="viewport" content="width=device-width, initial-
      scale=1.0">
6.     <title>Student Table</title>
7.     <style>
8.         table {
9.             width: 50%;
10.            border-collapse: collapse;
11.            margin: 20px 0;
12.            font-size: 18px;
13.            text-align: left;
14.        }
15.        th, td {
16.            border: 1px solid black;
17.            padding: 10px;
18.        }
19.        th {
20.            background-color: #f2f2f2;
21.        }
22.    </style>
23.</head>
24.<body>
25.
26.<table>
27.    <tr>
28.        <th>Name</th>
29.        <th>Class</th>
30.        <th>Roll Number</th>
31.        <th>Age</th>
32.    </tr>
33.    <tr>
34.        <td>Aarav Sharma</td>
35.        <td>10 A</td>
36.        <td>23</td>
37.        <td>15</td>
38.    </tr>
39.    <tr>
40.        <td>Priya Verma</td>
41.        <td>9 B</td>
42.        <td>12</td>
43.        <td>14</td>
44.    </tr>
```

```

45.     <tr>
46.         <td>Rahul Singh</td>
47.         <td>8 C</td>
48.         <td>8</td>
49.         <td>13</td>
50.     </tr>
51.     <tr>
52.         <td>Neha Iyer</td>
53.         <td>7 A</td>
54.         <td>5</td>
55.         <td>12</td>
56.     </tr>
57.</table>
58.
59.</body>
60.</html>
61.

```

**Output:**

Name	Class	Roll Number	Age
Aarav Sharma	10 A	23	15
Priya Verma	9 B	12	14
Rahul Singh	8 C	8	13
Neha Iyer	7 A	5	12

## 11. Write a program to show rowspan and colspan in a table.

```
1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
4.     <meta charset="UTF-8">
5.     <meta name="viewport" content="width=device-width, initial-
      scale=1.0">
6.     <title>Rowspan and Colspan Example</title>
7.     <style>
8.         table {
9.             width: 60%;
10.            border-collapse: collapse;
11.            margin: 20px 0;
12.            font-size: 18px;
13.            text-align: center;
14.        }
15.        th, td {
16.            border: 1px solid black;
17.            padding: 10px;
18.        }
19.        th {
20.            background-color: #f2f2f2;
21.        }
22.    </style>
23.</head>
24.<body>
25.
26.<table>
27.    <tr>
28.        <th rowspan="2">Name</th>
29.        <th colspan="2">Details</th>
30.        <th rowspan="2">Age</th>
31.    </tr>
32.    <tr>
33.        <th>Class</th>
34.        <th>Roll Number</th>
35.    </tr>
36.    <tr>
37.        <td>Aarav Sharma</td>
38.        <td>10</td>
39.        <td>23</td>
40.        <td>15</td>
41.    </tr>
42.    <tr>
43.        <td>Priya Verma</td>
44.        <td>9</td>
```

```

45.         <td>12</td>
46.         <td>14</td>
47.     </tr>
48.     <tr>
49.         <td rowspan="2">Rahul Singh</td>
50.         <td>8</td>
51.         <td>8</td>
52.         <td>13</td>
53.     </tr>
54.     <tr>
55.         <td>7</td>
56.         <td>5</td>
57.         <td>12</td>
58.     </tr>
59.</table>
60.
61.</body>
62.</html>
63.

```

**Output:**

Name	Details		Age
	Class	Roll Number	
Aarav Sharma	10	23	15
Priya Verma	9	12	14
Rahul Singh	8	8	13
	7	5	12

## 12. Write a program to make a form.

```
1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
4.     <meta charset="UTF-8">
5.     <meta name="viewport" content="width=device-width, initial-
      scale=1.0">
6.     <title>Simple Form</title>
7.     <style>
8.         body {
9.             font-family: Arial, sans-serif;
10.            display: flex;
11.            justify-content: center;
12.            align-items: center;
13.            height: 100vh;
14.            background-color: #f2f2f2;
15.        }
16.        form {
17.            background: white;
18.            padding: 20px;
19.            border-radius: 10px;
20.            box-shadow: 0px 0px 10px gray;
21.            width: 300px;
22.        }
23.        label {
24.            font-weight: bold;
25.        }
26.        input, select, textarea {
27.            width: 100%;
28.            padding: 8px;
29.            margin: 5px 0;
30.            border: 1px solid #ccc;
31.            border-radius: 5px;
32.        }
33.        button {
34.            background-color: green;
35.            color: white;
36.            padding: 10px;
37.            border: none;
38.            width: 100%;
39.            border-radius: 5px;
40.            cursor: pointer;
41.            font-size: 16px;
42.        }
43.        button:hover {
44.            background-color: darkgreen;
```



```
45.     }
46.     </style>
47.</head>
48.<body>
49.
50.<form>
51.     <label for="name">Name:</label>
52.     <input type="text" id="name" name="name" required>
53.
54.     <label for="email">Email:</label>
55.     <input type="email" id="email" name="email" required>
56.
57.     <label for="gender">Gender:</label>
58.     <select id="gender" name="gender">
59.         <option value="male">Male</option>
60.         <option value="female">Female</option>
61.         <option value="other">Other</option>
62.     </select>
63.
64.     <label for="message">Message:</label>
65.     <textarea id="message" name="message" rows="4"></textarea>
66.
67.     <button type="submit">Submit</button>
68.</form>
69.
70.</body>
71.</html>
72.
```

Output:

The image shows a web form with a light gray background. The form itself is a white rounded rectangle with a subtle drop shadow. It contains four input fields and a submit button. The 'Name' field is a light blue box with the text 'Vishal'. The 'Email' field is a light blue box with the text 'vishal@123'. The 'Gender' field is a white box with a dropdown arrow, showing 'Male'. The 'Message' field is a white box with a black border, containing the text 'wdsafafvsavsasvasv' with a red wavy underline. Below these fields is a green 'Submit' button.

**Name:**

Vishal

**Email:**

vishal@123

**Gender:**

Male

**Message:**

wdsafafvsavsasvasv

Submit