**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. /\* Different colors for each div \*/
20. .section1 {
21. background-color: skyblue; /\* Light Blue \*/
22. padding: 10px;
23. border-radius: 8px;
24. margin: 10px;
25. }
26. .section2 {
27. background-color:lightgreen; /\* Light Green \*/
28. padding: 10px;
29. border-radius: 8px;
30. margin: 10px;
31. }
32. .section3 {
33. background-color: pink; /\* Light Orange \*/
34. padding: 10px;
35. border-radius: 8px;
36. margin: 10px;
37. }
38. .section4 {
39. background-color:lightsalmon; /\* Light Red \*/
40. padding: 10px;
41. border-radius: 8px;
42. margin: 10px;
43. }
44. </style>
45. </head>
46. <body>
47. <h1>Use of Some Basic Tags in HTML</h1>
48. <div class="section1">
49. <p><b>This is bold text</b></p>
50. <p><i>This is italic text</i></p>
51. <p><u>This is underlined text</u></p>
52. <p>This is <strike>strikethrough</strike> text</p>
53. <p><small>This is small text</small></p>
54. <p><strong>This is strong (important) text</strong></p>
55. <p><big>This is big text</big></p>
56. <p><tt>This is typewriter text</tt></p>
57. </div>
58. <div class="section2">
59. <pre>
60. This is preformatted text.
61. </pre>
62. </div>
63. <div class="section3">
64. <p>H<sub>2</sub>O (Subscript example)</p>
65. <p>X<sup>2</sup> + Y<sup>2</sup> = Z<sup>2</sup> (Superscript example)</p>
66. </div>
67. <div class="section4">
68. <p>Here is a line break:<br>This text appears on a new line.</p>
69. </div>
70. </body>
71. </html>

**Output:**

**A screenshot of a computer

AI-generated content may be incorrect.**

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

**Output:**

**A green and white stripes

AI-generated content may be incorrect.**

**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. <h1>Nested Ordered and Unordered List</h1>
39. <!-- Nested Ordered List -->
40. <div class="container">
41. <h2>Nested Ordered List</h2>
42. <ol>
43. <li>Introduction
44. <ol>
45. <li>What is HTML?</li>
46. <li>Basic Structure of HTML</li>
47. </ol>
48. </li>
49. <li>CSS Basics
50. <ol>
51. <li>Selectors</li>
52. <li>Properties</li>
53. <li>CSS Box Model</li>
54. </ol>
55. </li>
56. <li>JavaScript Basics
57. <ol>
58. <li>Variables</li>
59. <li>Functions</li>
60. <li>Events</li>
61. </ol>
62. </li>
63. </ol>
64. </div>
65. <!-- Nested Unordered List -->
66. <div class="container">
67. <h2>Nested Unordered List</h2>
68. <ul>
69. <li>Fruits
70. <ul>
71. <li>Apple</li>
72. <li>Banana</li>
73. <li>Orange</li>
74. </ul>
75. </li>
76. <li>Vegetables
77. <ul>
78. <li>Carrot</li>
79. <li>Broccoli</li>
80. <li>Spinach</li>
81. </ul>
82. </li>
83. <li>Dairy Products
84. <ul>
85. <li>Milk</li>
86. <li>Cheese</li>
87. <li>Butter</li>
88. </ul>
89. </li>
90. </ul>
91. </div>
92. </body>
93. </html>

**Output:**

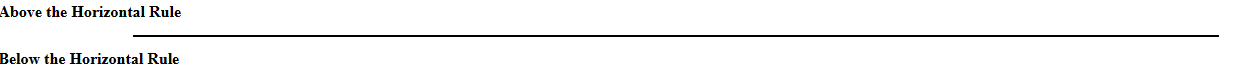
**A screenshot of a computer

AI-generated content may be incorrect.**

**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. <h2>Above the Horizontal Rule</h2>
17. <hr class="custom-hr">
18. <h2>Below the Horizontal Rule</h2>
19. </body>
20. </html>

**Output:**

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**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:**

**A mountain with trees and a lake

AI-generated content may be incorrect.**

**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. h1 {
15. color: gold; /\* Darker blue \*/
16. margin-bottom: 20px;
17. }
18. p {
19. margin: 10px 0;
20. }
21. a {
22. display: inline-block;
23. background-color: #3498db; /\* Blue button \*/
24. color: white;
25. text-decoration: none;
26. padding: 10px 15px;
27. border-radius: 5px;
28. transition: 0.3s ease-in-out;
29. }
30. a:hover {
31. background-color: #2980b9; /\* Darker blue on hover \*/
32. }
33. </style>
34. </head>
35. <body>
36. <h1>Various Hyperlinks Below</h1>
37. <p><a href="BGImageAndColor.html">Background Image link</a></p>
38. <p><a href="Listtags.html">List Tags link</a></p>
39. <p><a href="NestedLists.html">Nested List Tags link</a></p>
40. <p><a href="BasicTags.html">Basic Tags link</a></p>
41. </body>
42. </html>

**Output:**

**A screenshot of a computer

AI-generated content may be incorrect.**

**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. <h1>Image Tag and Attributes Example</h1>
23. <!-- Basic Image -->
24. <h3>Basic Image:</h3>
25. <img src="/images/java.svg" alt="Example Image" width="300" height="200">
26. <!-- Clickable Image (Link) -->
27. <h3>Clickable Image (Links to Google):</h3>
28. <a href="https://www.google.com" target="\_blank">
29. <img src="/images/google.png" alt="Google Link" width="300" height="200">
30. </a>
31. <!-- Image with Title Attribute (Tooltip) -->
32. <h3>Image with Title Attribute:</h3>
33. <img src="/images/tooltip.png" alt="Hover over me" title="This is a tooltip!" width="300" height="200">
34. </body>
35. </html>

**Output:**

**A screenshot of a computer

AI-generated content may be incorrect.**

**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. <h1>Marquee Tag Examples</h1>
18. <!-- Basic Scrolling Text -->
19. <marquee>Welcome to my website!</marquee>
20. <!-- Marquee with Direction -->
21. <marquee direction="right">This text moves to the right.</marquee>
22. <marquee direction="left">This text moves to the left.</marquee>
23. <marquee direction="up" height="50">This text moves upward.</marquee>
24. <marquee direction="down" height="50">This text moves downward.</marquee>
25. <!-- Marquee with Behavior -->
26. <marquee behavior="scroll">This text scrolls continuously.</marquee>
27. <marquee behavior="alternate">This text bounces back and forth.</marquee>
28. <marquee behavior="slide">This text slides and stops.</marquee>
29. <!-- Marquee with Speed and Scroll Amount -->
30. <marquee scrollamount="10">Faster scrolling text.</marquee>
31. <marquee scrollamount="2">Slower scrolling text.</marquee>
32. <!-- Marquee with Background Color -->
33. <marquee style="background-color: yellow; color: red; font-size: 20px;">
34. Colored marquee with larger text.
35. </marquee>
36. <!-- Marquee with Image -->
37. <marquee direction="right">
38. <img src="java.svg" alt="Moving Image" width="100">
39. </marquee>
40. </body>
41. </html>

**Output:**

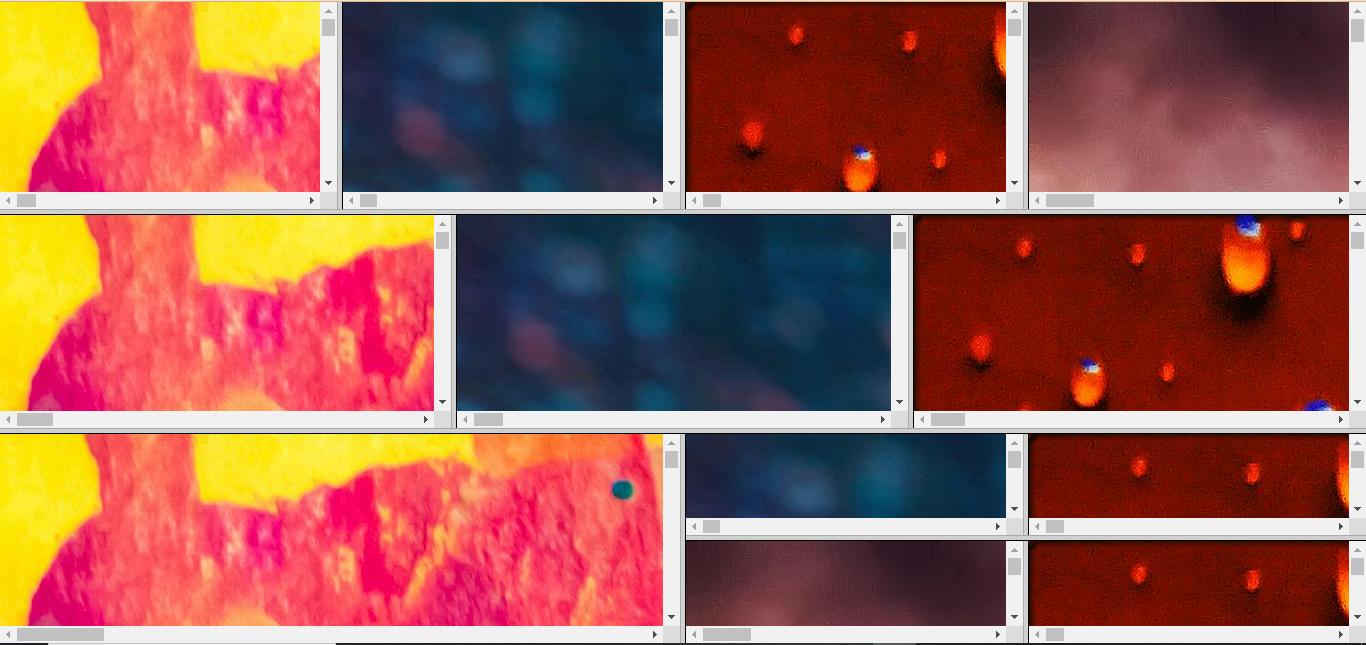
**A screenshot of a computer

AI-generated content may be incorrect.**

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

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

**Output:**

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**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. <table>
26. <tr>
27. <th>Name</th>
28. <th>Class</th>
29. <th>Roll Number</th>
30. <th>Age</th>
31. </tr>
32. <tr>
33. <td>Aarav Sharma</td>
34. <td>10 A</td>
35. <td>23</td>
36. <td>15</td>
37. </tr>
38. <tr>
39. <td>Priya Verma</td>
40. <td>9 B</td>
41. <td>12</td>
42. <td>14</td>
43. </tr>
44. <tr>
45. <td>Rahul Singh</td>
46. <td>8 C</td>
47. <td>8</td>
48. <td>13</td>
49. </tr>
50. <tr>
51. <td>Neha Iyer</td>
52. <td>7 A</td>
53. <td>5</td>
54. <td>12</td>
55. </tr>
56. </table>
57. </body>
58. </html>

**Output:**

**A table with numbers and letters

AI-generated content may be incorrect.**

**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. <table>
26. <tr>
27. <th rowspan="2">Name</th>
28. <th colspan="2">Details</th>
29. <th rowspan="2">Age</th>
30. </tr>
31. <tr>
32. <th>Class</th>
33. <th>Roll Number</th>
34. </tr>
35. <tr>
36. <td>Aarav Sharma</td>
37. <td>10</td>
38. <td>23</td>
39. <td>15</td>
40. </tr>
41. <tr>
42. <td>Priya Verma</td>
43. <td>9</td>
44. <td>12</td>
45. <td>14</td>
46. </tr>
47. <tr>
48. <td rowspan="2">Rahul Singh</td>
49. <td>8</td>
50. <td>8</td>
51. <td>13</td>
52. </tr>
53. <tr>
54. <td>7</td>
55. <td>5</td>
56. <td>12</td>
57. </tr>
58. </table>
59. </body>
60. </html>

**Output:**

**A table with text and numbers

AI-generated content may be incorrect.**

**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. <form>
50. <label for="name">Name:</label>
51. <input type="text" id="name" name="name" required>
52. <label for="email">Email:</label>
53. <input type="email" id="email" name="email" required>
54. <label for="gender">Gender:</label>
55. <select id="gender" name="gender">
56. <option value="male">Male</option>
57. <option value="female">Female</option>
58. <option value="other">Other</option>
59. </select>
60. <label for="message">Message:</label>
61. <textarea id="message" name="message" rows="4"></textarea>
62. <button type="submit">Submit</button>
63. </form>
64. </body>
65. </html>

**Output:**

**A screenshot of a form

AI-generated content may be incorrect.**