

## MODULE: 1 (HTML)

- **Are the HTML tags and elements the same thing?**

Ans.) No, the HTML tags and elements are not the same.

HTML tags are used to design a webpage and are used to mark the beginning and end of HTML elements.

While, HTML elements consist of an opening tag, content and a closing tag.

- **What are tags and attributes in HTML?**

Ans.) Tags are markers that define the beginning, and end on elements.

Attributes provides additional information about HTML elements and are always included in the opening tag.

- **What are void elements in HTML?**

Ans.) Void elements in HTML are those elements which do not have closing tag. E.g.- <br> tag, <hr> tag.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <link rel="icon" href="yLOG01.jpg">
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8 </head>
9 <body>
10  
11  <br>
12  
13  <br>
14  
15 </body>
16 </html>
```

## • What are HTML Entities?

Ans.) HTML entities are special codes used to represent reserved characters with special meaning in HTML. They start with an **ampersand("&")** and end with a **semicolon(";")**.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <link rel="icon" href="YLOGO1.jpg">
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <h1>&#128514;I AM EMOJI</h1>
  <h1>&#128515;I AM EMOJI</h1>
  <h1>&#128516;I AM EMOJI</h1>
  <h1>&#128517;I AM EMOJI</h1>
  <h1>&#128518;I AM EMOJI</h1>
  <h1>&#128519;I AM EMOJI</h1>
</body>
</html>
```

## • What are different types of lists in HTML?

Ans.) There are mainly three types of lists in HTML.

They are as follows:-

- I. **Ordered List:-** It represents a list of items in a specific order. Each item is marked with a number or alphabet (small or capital) or roman numbers.
- II. **Unordered List:-** It represents a list of items without any particular order. Each item is typically marked with a disk or circle or square.

### III. Definition/Description List:- It represents a list of term-definition pairs. Each **term** is marked with **<dt> (definition term)** and each **definition** is marked with **<dd> (definition description)**.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <link rel="icon" href="YLOG01.jpg">
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <!-- 1. Ordered List -->
  <ol>
    <li>HI, YASHESH HERE</li>
    <li>HI, YASHESH HERE</li>
    <li>HI, YASHESH HERE</li>
    <li>HI, YASHESH HERE</li>
    <li>HI, YASHESH HERE</li>
  </ol>
  <ol>
    <li type="A">HI, YASHESH HERE</li>
    <li type="A">HI, YASHESH HERE</li>
    <li type="A">HI, YASHESH HERE</li>
    <li type="A">HI, YASHESH HERE</li>
    <li type="A">HI, YASHESH HERE</li>
  </ol>
  <ol>
    <li type="a">HI, YASHESH HERE</li>
    <li type="a">HI, YASHESH HERE</li>
    <li type="a">HI, YASHESH HERE</li>
    <li type="a">HI, YASHESH HERE</li>
    <li type="a">HI, YASHESH HERE</li>
  </ol>
  <ol>
    <li type="I">HI, YASHESH HERE</li>
    <li type="I">HI, YASHESH HERE</li>
    <li type="I">HI, YASHESH HERE</li>
    <li type="I">HI, YASHESH HERE</li>
    <li type="I">HI, YASHESH HERE</li>
  </ol>
```

```
</ol>
<ol>
  <li type="i">HI, YASHESH HERE</li>
  <li type="i">HI, YASHESH HERE</li>
  <li type="i">HI, YASHESH HERE</li>
  <li type="i">HI, YASHESH HERE</li>
  <li type="i">HI, YASHESH HERE</li>
</ol>
<!-- 2. Unordered List -->
<ul>
  <li>HI, YASHESH HERE</li>
  <li>HI, YASHESH HERE</li>
  <li>HI, YASHESH HERE</li>
  <li>HI, YASHESH HERE</li>
  <li>HI, YASHESH HERE</li>
</ul>
<ul>
  <li type="square">HI, YASHESH HERE</li>
  <li type="square">HI, YASHESH HERE</li>
  <li type="square">HI, YASHESH HERE</li>
  <li type="square">HI, YASHESH HERE</li>
  <li type="square">HI, YASHESH HERE</li>
</ul>
<ul>
  <li type="circle">HI, YASHESH HERE</li>
  <li type="circle">HI, YASHESH HERE</li>
  <li type="circle">HI, YASHESH HERE</li>
  <li type="circle">HI, YASHESH HERE</li>
  <li type="circle">HI, YASHESH HERE</li>
</ul>
<!-- 3. Descriptive List -->
<dl>
  <dt>HTML</dt>
  <dd>Hyper Text Markup Language</dd>
</dl>
</body>
</html>
```

#### • What is the 'class' attribute in HTML?

Ans.) "class" attribute is used to assign one or more class names to an HTML element. It is mainly used for styling and applying CSS rules to specific elements.

- What is the difference between the 'id' attribute and the 'class' attribute of HTML elements?

Ans.) –

- What are the various formatting tags in HTML?

Ans.)

- I. **Paragraph Tag[<p>]:**- Defines a paragraph of text.
- II. **Heading Tag[<h1> to <h6>]:**- Defines headings of different levels, with <h1> being the highest and <h6> the lowest.
- III. **Bold Tag[<bold> or <strong>]:**- Represents bold text.
- IV. **Italic Tag[<i> or <em> or <cite>]:**- Represents italic text.
- V. **Underline[<u> or <ins>]:**- Represents underlined text.
- VI. **Strikethrough[<s> or <strike> or <del>]:**- Represents text that is no longer accurate or relevant.
- VII. **Line Break[<br>]:**- Forces a line break within text.
- VIII. **Thematic Break[<hr>]:**- Represents a horizontal line rule.
- IX. **Subscript[<sub>]:**- Represents subscript text.
- X. **Superscript[<sup>]:**- Represents superscript text.
- XI. **Center Tag[<center>]:**- Used to center align the text.
- XII. **Abbreviation[<abbr>]:**- Used to define an acronym or abbreviation.
- XIII. **Blockquote[<blockquote>]:**- Used to make space on both sides of content.
- XIV. **Marquee[<marquee>]:**- Used to make text scroll up, down left or right.

```

<!DOCTYPE html>
<html lang="en">

<head>
  <link rel="icon" href="VLOG01.jpg">
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>

<body>
  <p>
    I AM PARAGRAPH
  </p>

  <p>
    Lorem ipsum dolor sit amet consectetur adipisicing elit. Molestias quod doloreque quae vitae, nobis dicta nam ipsam ut alias quisquam tempore dolorem officia totam dolore et possimus, voluptates tempora veritatis sint, illo vel. Ducimus illo sunt temporibus, magni atque deserunt perspiciatis vero corrupti, nesciunt recusandae, quaerat laudantium non esse? Nesciunt!
  </p>
  <h1>I am Heading1</h1>
  <h2>I am Heading2</h2>
  <h3>I am Heading3</h3>
  <h4>I am Heading4</h4>
  <h5>I am Heading5</h5>
  <h6>I am Heading6</h6>

  <p>
    I am <b>Paragraph</b>
  </p>
  <br>
  <b>
    Paragraph
  </b>

```

```

<br>
<strong>I am STRONG</strong>
<p>
  I AM <i>Paragraph</i>
</p>
<br>
<em>I AM ITALIC</em>
<br>
<hr>
<cite>I AM ITALIC</cite>

<marquee scrollamount="10">I AM MARQUEE</marquee>
<marquee scrollamount="10" direction="right">I AM MARQUEE</marquee>
<marquee direction="up">I AM MARQUEE</marquee>
<marquee direction="down">I AM MARQUEE</marquee>
<h1>
  22<sup>22</sup>
</h1>
<hr>
<h1>
  CO<sub>2</sub>
</h1>
<code>
  I AM CODE TAG
</code>
<address>
  Ghodasar,
  <br> Ahmedabad,
  <br> 380050
</address>
<bdo dir="rtl">I AM HEADING</bdo>
<center>
  <h1>I AM IN <abbr title="INDIAN SPACE RESEARCH ORGANISATION">ISRO</abbr>
  </h1>
</center>

```

```

<U>I AM UNDERLINE</U><br>
<INS>I AM UNDERLINE</INS>
<p>
  Lorem ipsum dolor sit, amet consectetur adipisicing elit. Accusamus, corrupti sapiente! Voluptatum dicta delectus quo laboriosam? Ipsam sapiente perferendis consectetur illo temporibus harum veniam porro veritatis fugiat eius nesciunt sunt minima, facilis accusantium inventore voluptas, nulla praesentium, quidem optio nisi placeat numquam explicabo voluptatum? Quaerat autem dolores earum sequi consectetur voluptatibus repudiandae porro ducimus, sapiente ad facere eligendi, nostrum suscipit.
</p>
<blockquote>
  <p>
    Lorem, ipsum dolor sit amet consectetur adipisicing elit. Eos ex id vitae, laboriosam sit rerum, exercitationem officiis eaque, nemo corrupti odio inventore? Repellendus quia cum vitae necessitatibus fugit blanditiis, voluptatibus nobis quidem voluptas consectetur aspernatur, aut dignissimos unde facilis quibusdam expedita. Voluptates repellendus, autem ad dolore ipsam non rem, porro quasi sint neque maiores? Quibusdam, eveniet atque! Magnam, fuga quod?
  </p>
</blockquote>
<h1>
  I am <mark>Mark</mark>
</h1>
<p>I AM <Q>HEADING</Q></p>
</body>

</html>

```

- **How is Cell Padding different from Cell Spacing?**

Ans.) **Cell Padding** defines the space between cell content and cell border in a table. **Cell Spacing** defines the space between adjacent table cells.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <link rel="icon" href="YLOG03.jpg">
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Different Tables</title>
</head>
<body>
  <!-- Table-1 Normal Table -->
  <table border="3" style="background-color: antiquewhite;border-color: blue;" cellspacing="4" cellpadding="4">
    <tr style="background-color: yellow; border-color: darkgreen;">
      <th>Sr. No.</th>
      <th>Roll No.</th>
      <th>Name</th>
      <th>Team</th>
    </tr>
    <tr>
      <th style="background-color: yellow; border-color: darkgreen;">1</th>
      <td>1001</td>
      <td>John</td>
      <td>Red</td>
    </tr>
    <tr>
      <th style="background-color: yellow; border-color: darkgreen;">2</th>
      <td>1002</td>
      <td>Peter</td>
      <td>Blue</td>
    </tr>
    <tr>
      <th style="background-color: yellow; border-color: darkgreen;">3</th>
      <td>1003</td>
      <td>Henry</td>
      <td>Green</td>
    </tr>
  </table>
```

- **How can we club two or more rows or columns into a single row or column in an HTML table?**

Ans.) We can club two or more rows by using the attribute **rowspan**. While, We can club two or more columns by using the attribute **colspan**.

```

<!-- Table-7 -->
<table border="2">
  <tr>
    <th rowspan="9">A</th>
    <th rowspan="9">B</th>
    <th rowspan="9">C</th>
    <th rowspan="6">D</th>
    <th rowspan="5">E</th>
    <th rowspan="4">F</th>
    <th colspan="2">AB</th>
    <th rowspan="4">H</th>
    <th rowspan="4">I</th>
    <th rowspan="4">J</th>
    <th rowspan="4">K</th>
    <th rowspan="4">L</th>
    <th rowspan="10">M</th>
  </tr>
  <tr>
    <th colspan="2">G</th>
  </tr>
  <tr>
    <th colspan="2">GH</th>
  </tr>
  <tr>
    <th colspan="2">N</th>
  </tr>
  <tr>
    <th colspan="4">O</th>
  </tr>
  <tr>
    <th colspan="6">P</th>
  </tr>
  <tr>
    <th colspan="8">Q</th>
  </tr>
  <tr>
    <th colspan="2">R</th>
    <th>S</th>
    <th>T</th>
    <th colspan="2">U</th>
    <th>V</th>
    <th>W</th>
    <th colspan="2">X</th>
  </tr>
  <tr>
    <th colspan="12">Y</th>
  </tr>
  <tr>
    <th colspan="2">Z</th>
    <th>1</th>
    <th>2</th>
    <th>3</th>
    <th>4</th>
    <th>5</th>
    <th>6</th>
    <th>7</th>
    <th>8</th>
    <th>9</th>
    <th colspan="2">10</th>
  </tr>
</table>

```

A	B	C	D	E	F	AB	H	I	J	K	L	M
						G						
						GH						
						N						
					O							
				P								
			Q									
			R	S	T	U	V	W	X			
			Y									
			Z	1	2	3	4	5	6	7	8	

- What is the difference between a block-level element and an inline element?

Ans.) **Block-Level Elements** start on a new line, and takes up the full width available.

While, **Inline Elements** Do not start on a new line, and takes up only a smuch width necessary.

- How to create a Hyperlink in HTML?

Ans.) To create a hyperlink in HTML, use the **<a>(anchor) tag with the "href" attribute**. The code is as follows:

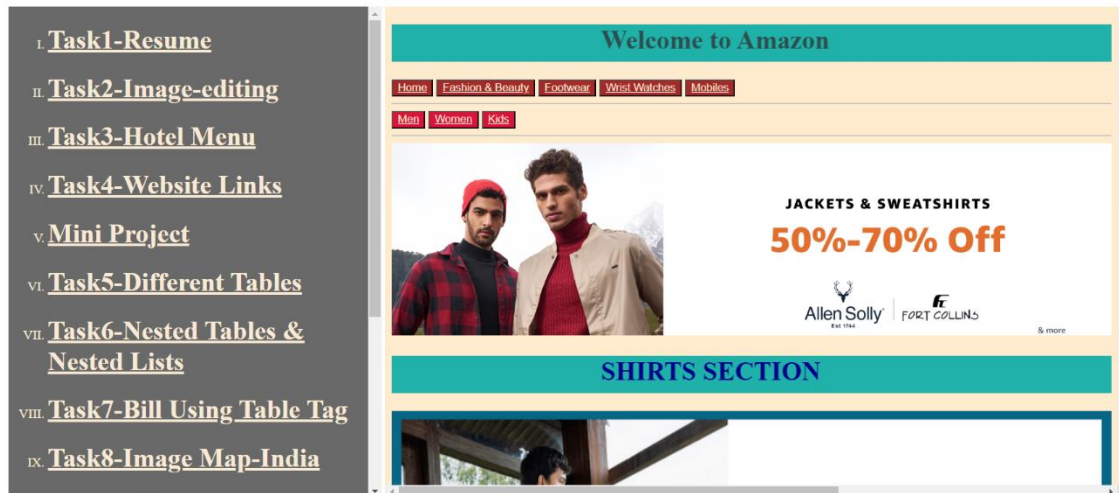
```

1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <link rel="icon" href="YLOG01.jpg">
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8 </head>
9 <body>
10  <a href="https://www.google.co.in/">Google</a>
11  <br>
12  <a href="https://www.google.co.in/" target="_blank">Google</a>
13 </body>
14 </html>

```

## • What is the use of an Iframe tag?

Ans.) It is used to embed external content like another webpage, document or media within the current webpage.





- **What is the use of a span tag? Explain with example?**

Ans.) It is used to give background color to particular text we want to.

```
<!DOCTYPE html>
<html lang="en">

<head>
  <link rel="icon" href="YLOG01.jpg">
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Div & Span Tag</title>
</head>

<body>
  <div style="background-color: aquamarine; height: 550px; width: 550px;">
    <div style="background-color: blanchedalmond; height: 160px; width: 160px; margin: 30px; padding: 100px;">
      <div style="background-color: cornflowerblue; height: 140px; width: 140px ;"><span
        style="background-color: purple;">Hi</span></div>
      </div>
      <div style="background-color: grey; height: 120px; width: 120px;"></div>
      <div style="background-color: burlywood; height: 100px; width: 100px;"></div>
    </div>
  </div>
</body>

</html>
```

- **How to insert a picture into a background image of a web page?**

Ans.) To insert background image, we can use the CSS property of **background image**.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <link rel="icon" href="YLOG01.jpg">
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Form Tag - Loginpage</title>
8 </head>
9 <body style="background-image: url(i5.avif);">
```

Welcome TO Login Page

First Name:

Last Name:

Password:

- **How are active links different from normal links?**

Ans.) Normal Links represent links in their default state. While, Active Links represent links that are currently being clicked or interacted with.

- **What are the different tags to separate sections of text?**

Ans.) Tags to separate sections of text are:-

- I. **Paragraph tag[<p>]**
- II. **Heading tag[<h1> to <h6>]**

```

<!DOCTYPE html>
<html lang="en">
<head>
  <link rel="icon" href="YLOG03.jpg">
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Curriculum Vitae</title>
</head>
<body><fieldset>
  <legend>
  </legend>
  <p>
    <center>
      <h1><b><u>Curriculum Vitae</u></b></h1>
    </center>
    <blockquote><h2>
      <b>Yashesh Mehta</b>
    </h2>
    <p>
      Ghodasar,
      <br>Ahmedabad,
      <br>380050
      <br>9876543219
      <br>987654321@gmail.com
    </p>
  </p>
</body>
</html>

```

## • What is SVG?

Ans.) It is used to define graphics for the web, i.e., it is used to add different shapes like square, rectangle, circle, etc. on a webpage.

Its full form is **Scalable Vector Graphics (SVG)**.

```

<!DOCTYPE html>
<html lang="en">
<head>
  <link rel="icon" href="YLOG01.jpg">
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>SVG Tag</title>
</head>
<body>
  <svg style="height: 400px; width: 400px;">
    <circle r="70" cx="200px" cy="200px" fill="lightskyblue" stroke="darkblue" stroke-width="20"></circle>
  </svg>

  <svg style="height: 400px; width: 400px;">
    <rect height="200px" width="400px" fill="lightskyblue" stroke="darkblue" stroke-width="20"></rect>
  </svg>
</body>
</html>

```

- **What is difference between HTML and XHTML?**

Ans.)

- i. HTML is not a case sensitive language. While, XHTML is a case sensitive language.
- ii. File extension of HTML file is .html. While, that of XHTML is .xhtml.