###### *Web Designing Assignment*

*Term-1*

*Module (HTML) -1*

• Are the HTML tags and elements the same thing?

Ans : In HTML (Hypertext Markup Language), tags are used to define the structure and presentation of the content within a web page. Tags are written as opening and closing pairs enclosed in angle brackets ("< >"), and they surround specific parts of the content. For example, the **<p>** tag is used to define a paragraph, and it is written as **<p>...</p>**, with the actual paragraph content placed between the opening and closing tags.

On the other hand, HTML elements consist of both the opening and closing tags, along with the content that is enclosed within those tags. So, an HTML element is essentially a combination of tags and the content they encompass. For instance, the **<p>** element consists of the opening tag **<p>**, the content and the closing tag **</p>**.

• What are tags and attributes in HTML?

Ans <p>This is a paragraph.</p>

• What are void elements in HTML? With Example.

Ans **<br>** - Line Break: The **<br>** tag is used to insert a line break or a single line space within the content.

<p>This is the first line.<br>This is the second line.</p>

• What are HTML Entities? With Example.

Represents the less than sign (<) character. This entity is used when you want to display the less than sign as part of your content without it being interpreted as an opening tag.

<p>5 is &lt; 10</p>

• What are different types of lists in HTML? With Example.

1.Ordered List (**<ol>**): An ordered list represents a list of items in a specific order. Each item is numbered sequentially by default. The **<ol>** tag is used to define an ordered list, and each item is defined using the **<li>** (list item) tag

Example

<ol>

<li>First item</li>

<li>Second item</li>

<li>Third item</li>

</ol>

1. First item
2. Second item
3. Third item
4. Unordered List (**<ul>**): An unordered list represents a list of items without any particular order or sequence. Each item is represented by a bullet point or another custom symbol. The **<ul>** tag is used to define an unordered list, and each item is defined using the **<li>** tag.

Example

<ul>

<li>Red</li>

<li>Green</li>

<li>Blue</li>

</ul>

• What is the ‘class’ attribute in HTML? With Example.

In HTML, the 'class' attribute is used to assign one or more class names to an element. It allows you to define a class or group for elements that share similar characteristics or styles. The class name can be used to select and target specific elements for CSS styling or JavaScript manipulation.

Example

<p class="highlight">This is a paragraph with a class</p>

• What is the difference between the ‘id’ attribute and the ‘class’ attribute of HTML

elements? With Example.

1. 'id' attribute: The 'id' attribute is used to uniquely identify a specific element on a web page. It should be unique within the entire HTML document, meaning no other element should have the same 'id' value. The 'id' attribute is typically used when you want to target and manipulate a specific element with CSS or JavaScript.

Example

<p id="my-paragraph">This is a paragraph with an ID</p>

• What are the various formatting tags in HTML

In HTML, there are various formatting tags available that allow you to apply different types of formatting to the content within your web page. Here are some commonly used formatting tags:

1. **<b>** - Bold: The **<b>** tag is used to apply bold formatting to text.
2. **<i>** - Italic: The **<i>** tag is used to apply italic formatting to text.
3. **<u>** - Underline: The **<u>** tag is used to apply underline formatting to text.
4. **<sup>** - Superscript: The **<sup>** tag is used to render text as superscript, typically used for mathematical notations, footnotes, etc.
5. **<sub>** - Subscript: The **<sub>** tag is used to render text as subscript, commonly used for chemical formulas, mathematical equations, etc.

• How is Cell Padding different from Cell Spacing? With Example.

Cell padding and cell spacing are both attributes used in HTML table elements (**<table>**) to control the spacing and alignment of the content within table cells (**<td>** and **<th>**). However, they serve different purposes.

Example

<table cellpadding="10">

<tr>

<td>This is cell 1</td>

<td>This is cell 2</td>

</tr>

</table>

• How can we club two or more rows or columns into a single row or column in an HTML

table? With Example.

You can merge two or more rows or columns into a single row or column in an HTML table by using the \*\*colspan\*\* and \*\*rowspan\*\* attributes in the \*\*<td>\*\* tag.

Exmple

<table>

<tr>

<td>Column 1</td>

<td colspan="2">Merged Column</td>

</tr>

<tr>

<td>Column 2</td>

<td>Column 3</td>

</tr>

</table>

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

1. Examples of block-level elements include **<div>**, **<p>**, **<h1>** to **<h6>**, **<ul>**, **<li>**, **<table>**, **<form>**, etc.

• How to create a Hyperlink in HTML? With Example.

To create a hyperlink in HTML, you can use the **<a>** element. The **<a>** element is used to define a hyperlink and specify the target URL or the destination where the link should navigate to. Here's an example of creating a hyperlink

Example

<a href="https://www.example.com">Visit Example Website</a>

• What is the use of an iframe tag? With Example.

The **<iframe>** (inline frame) tag is used in HTML to embed another HTML document or web page within the current document. It allows you to display external content, such as a web page, a video, a map, or any other HTML document, within a specific region of the current page. Here's an example of using the **<iframe>** tag:

Example

<iframe src="https://www.youtube.com/embed/dQw4w9WgXcQ" width="560" height="315"></iframe>

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

The `<span>` tag is an inline HTML element used to apply styling or target specific sections of text within a larger block of content. It does not inherently change the structure or layout of the content but provides a way to apply CSS styles or target the enclosed text with JavaScript or other scripting languages. Here's an example of using the `<span>` tag:

exmple

<p>This is a <span class="highlight">highlighted</span> text.</p>

• How to insert a picture into a background image of a web page? With Example.

<p style="background-image: url('img\_girl.jpg');

• How are active links different from normal links?

**:**The following example shows the basic example for Normal Link ( Unvisited Link ). If you want to create a link to go to “<https://www.geeksforgeeks.org/>“, you can get the normal link through this code. The default color is blue color and underlined but you can apply your own custom styling according to the application’s need.

* HTML

|  |
| --- |
| <!DOCTYPE html>  <**html**>    <**body**>      <**h2**>This is a Link</**h2**>      <**h1**>          Welcome to          <**a** href="<https://www.geeksforgeeks.org/>">              GeeksforGeeks          </**a**>      </**h1**>  </**body**>    </**html**> |

• What are the different tags to separate sections of text?

**<div>**: The **<div>** tag is a generic container that is often used to group and separate larger sections of text or content. It does not have any specific semantic meaning but is commonly used for layout and organization purposes.

• What is SVG?

SVG stands for Scalable Vector Graphics.

SVG defines vector-based graphics in XML format.

• What is difference between HTML and XHTML?

* XHTML stands for E**X**tensible **H**yper**T**ext **M**arkup **L**anguage
* XHTML is a stricter, more XML-based version of HTML
* XHTML is HTML defined as an XML application
* XHTML is supported by all major browsers