## WEB DESIGINING ASSIGNMENT

- (1) Are the HTML tags and elements the same thing?
- -HTML tags and HTML elements are closely related but not exactly the same thing.

HTML tags are the individual markers that define the structure and content of elements within an HTML document. They consist of angle brackets (< and >) surrounding an element name, and they may include attributes to provide additional information about the element.

HTML elements, on the other hand, consist of a pair of opening and closing tags along with the content they enclose. An HTML element encompasses everything from the opening tag to the closing tag, including any nested elements and text content.

- (2) What are tags and attributes in HTML?
- HTML tags are the structural components used to define elements on a webpage. They consist of opening and closing tags wrapped around content. Tags are enclosed in angle brackets (< and >).

HTML attributes provide additional information about elements. They are placed within the opening tag and modify the behavior or appearance of the element. Attributes consist of a name and a value, separated by an equals sign (=).

- (3) What are void elements in HTML?
- Void elements, also referred to as self-closing or empty elements, are HTML elements that do not require a closing tag. They are used to insert specific types of content into a webpage without enclosing any content between an opening and closing tag. Examples of void elements include <img>, <br/> <br/> <input>, <hr>, <input>, <hr>, and <meta>.
- (4) What are HTML Entities?
- HTML entities are special codes used to represent characters that have special meaning in HTML or characters that are difficult to type directly from the keyboard. They are used to ensure proper rendering and interpretation of characters in HTML documents across different platforms and devices. HTML entities are written using an ampersand (&) followed by a predefined entity name or numerical code, and ending with a semicolon (;).

Some examples of HTML entities:

- o < represents the less-than sign (<).
- o > represents the greater-than sign (>).
- o © represents the copyright symbol (©).
- o represents a non-breaking space ().

HTML entities are crucial for displaying reserved characters, symbols, and characters with special diacritical marks or accents in HTML documents. They help maintain consistency and readability of content across various web browsers and platforms.

- (5) What are different types of lists in HTML?
- -In HTML, there are primarily three types of lists:
- (1) Ordered Lists (): Lists with items in a numbered sequence.
- (2) Unordered Lists (): Lists with items represented by bullets or other markers.
- (3) Definition Lists (<dl>): Lists with terms and their corresponding definitions.
- **(6)** What is the 'class' attribute in HTML?
- In HTML, the 'class' attribute is used to assign one or more class names to an element. Classes are used primarily for styling and JavaScript manipulation. By assigning a class to an element, you can apply CSS styles to that element or target it with JavaScript for dynamic behavior. Multiple elements can share the same class, allowing you to apply the same styles or behavior to them collectively. The 'class' attribute can be added to almost any HTML element.
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- (8) What is the difference between the 'id' attribute and the 'class' attribute of HTML elements?
- The main differences between the 'id' attribute and the 'class' attribute in HTML are:
  - Uniqueness: The 'id' attribute must be unique within the entire HTML document, meaning each element can have only one 'id'. The 'class' attribute, however, can be applied to multiple elements, allowing them to share the same class name.
  - **Purpose**: The 'id' attribute is used to uniquely identify a single element, typically for scripting or styling purposes. The 'class' attribute, on the other hand, is used to group elements that share common styling or behavior.
  - **Targeting**: 'id' attributes are often used to target specific elements in CSS or JavaScript by using the '#' symbol followed by the 'id' value. 'class' attributes are also used for styling and scripting, but they target multiple elements with the same class name using the '.' symbol followed by the class name.

In summary, while 'id' attributes uniquely identify individual elements, 'class' attributes are used to apply common styling or behavior to multiple elements.

(9) What are the various formatting tags in HTML?

- HTML provides several formatting tags to structure and style content. Some of the main formatting tags include:
  - **<b>**: Bold text.
  - **<i>**: Italicized text.
  - o **<u>**: Underlined text.
  - o **<strong>**: Strong emphasis (typically renders as bold).
  - o **<em>**: Emphasized text (typically renders as italic).
  - o **<sub>**: Subscript text.
  - o **<sup>**: Superscript text.
  - o **<mark>**: Highlighted or marked text.
  - o **<small>**: Smaller text.
  - o **<big>**: Larger text. **<del>**: Deleted or struck-through text.
  - o **<ins>**: Inserted or underlined text.
  - o **<code>**: Code or computer code text.

  - o **<cite>**: Citation or title of a work.
  - o **<blookquote>**: Block quote or long quotation.
  - o **<abbr>**: Abbreviation or acronym.
  - <address>: Address information.
  - o **<time>**: Time or date.
  - o **<dfn>**: Definition of a term.

These tags are used to enhance the presentation and semantics of HTML content. However, it's important to note that many of these tags are considered deprecated in favor of using CSS for styling and maintaining separation of concerns.

- (10) How is Cell Padding different from Cell Spacing?
- Cell padding and cell spacing are attributes used in HTML tables to control the spacing and padding around the content within table cells, but they serve different purposes:
  - **Cell Padding**: Cell padding specifies the space between the content of a table cell and the cell's borders. It determines how much space is left between the content and the edges of the cell. You can set cell padding using the **cellpadding** attribute of the element or with CSS using the **padding** property.
  - **Cell Spacing**: Cell spacing, on the other hand, specifies the space between cells in a table. It controls the gap between adjacent cells, effectively determining the distance between the borders of neighboring cells. You can set cell spacing using the **cellspacing** attribute of the element or with CSS using the **border-spacing** property.

In summary, cell padding affects the space between the content and the borders within a cell, while cell spacing affects the space between cells in a table.

- (11) How can we club two or more rows or columns into a single row or column in an HTML table?
- To merge two or more rows into a single row in an HTML table:

Use the **rowspan** attribute within the or element of the cell you want to span. Set the value of **rowspan** to the number of rows you want to merge vertically.

To merge two or more columns into a single column:

Use the **colspan** attribute within the or element of the cell you want to span. Set the value of **colspan** to the number of columns you want to merge horizontally.

These attributes allow you to create more complex table layouts by combining multiple cells into a single cell, either vertically or horizontally, depending on your design needs.

- (12) What is the difference between a block-level element and an inline element?
- -The main differences between block-level elements and inline elements in HTML are:

# (1) **Display Behavior**:

- a. Block-level elements typically start on a new line and stretch the full width of their parent container by default.
- b. Inline elements, on the other hand, do not start on a new line and only take up as much width as necessary for their content, allowing other elements to sit beside them horizontally.

## (2) Container Behavior:

- a. Block-level elements can contain other block-level elements and inline elements.
- b. Inline elements are typically contained within block-level elements or other inline elements.

## (3) **Default Styling**:

- a. Block-level elements have default styling such as margins, padding, and width applied by the browser.
- b. Inline elements do not have default margins or line breaks, and they often inherit styles from their parent elements.

#### (4) **Examples**:

- i. Common block-level elements include **<div>**, , **<h1> <h6>**, , , .
- b. Common inline elements include <span>, <a>, <strong>, <em>, <img>, <input>.

Understanding the differences between block-level and inline elements is crucial for structuring and styling HTML content effectively.

- (13) How to create a Hyperlink in HTML?
- To create a hyperlink in HTML:
  - (1) We have to use the **<a>** element, which stands for "anchor."
  - (2) Set the **href** attribute to specify the destination URL.
  - (3) Provide the link text between the opening and closing <a> tags.
  - (4) When a user clicks on the link text, they are directed to the URL specified in the **href** attribute.

- (14) What is the use of an iframe tag?
- The **<iframe>** tag in HTML is used to embed another webpage or content within the current webpage. It essentially creates a window or frame where external content can be displayed seamlessly within the main page.
- (15) What is the use of a span tag? Explain with example?
- The **span** tag in HTML is used to apply styles or scripting to a specific section of text or inline elements without adding any semantic meaning. It is commonly used when you want to style or manipulate a small section of text within a larger block of content. For example, you might use a **span** tag to change the color, font size, or font weight of a specific word or phrase within a paragraph.
- (16) How to insert a picture into a background image of a web page?
- To insert a picture into the background image of a webpage, you typically use CSS (Cascading Style Sheets). By setting the background image property of an HTML element to the desired image, you can achieve this effect. However, without providing specific code, I can give you a general outline of the process:
  - (1) **Prepare the Images**: Ensure you have the image you want to use as the background and the picture you want to overlay on top of it.
  - (2) **Define the HTML Structure**: Create the HTML structure of your webpage, including the necessary elements where you want to display the background image and the picture.
  - (3) **Apply CSS Styles**: Use CSS to style the elements. Set the background image property of the desired element to the URL of the background image. You may also need to adjust other properties like background size, position, and repeat based on your design requirements.
  - (4) **Position the Picture**: If you want to overlay another picture on top of the background image, use CSS positioning to position the picture element relative to its container or the entire viewport.

By following these steps and applying appropriate CSS styles, you can achieve the desired effect of inserting a picture into the background image of a webpage.

- (17) How are active links different from normal links?
- Active links and normal links in the context of web design refer to different states of hyperlinks based on user interaction:
  - (1) **Normal Links**: Normal links are the default appearance of hyperlinks on a webpage. They are typically styled to have a distinct color and underlined text to indicate that they are clickable. When a user hovers over a normal link, it may change color or display a hover effect, depending on the CSS styling applied.
  - (2) **Active Links**: Active links are hyperlinks that are currently being interacted with by the user. This state occurs when a user clicks on a link but hasn't yet released the mouse button. In some cases, active links may have a different appearance from normal links to provide immediate feedback to the user that their click has

been registered. However, this distinction is often subtle, and many websites use the same styling for active and normal links.

In summary, the primary difference between active links and normal links is that active links are currently being clicked or interacted with by the user, while normal links are the default appearance of hyperlinks on a webpage.

(18) What are the different tags to separate sections of text?

In HTML, there are several tags used to separate sections of text and provide structure to the content:

- (1) **:** The paragraph tag is used to separate blocks of text into paragraphs.
- (2) **div**: The division tag is a generic container that can be used to group and separate sections of content. It's often used for larger sections of content or to apply styling.
- (3) **<span>**: The span tag is an inline container used to apply styling or scripting to a specific section of text within a larger block of content.
- (4) **<h1>** to **<h6>**: These are heading tags used to denote headings or subheadings within a document, with **<h1>** being the highest level and **<h6>** being the lowest level.
- (5) **<section>**: The section tag is used to define sections within a document, typically representing thematic grouping of content.
- (6) **<article>**: The article tag is used to define independent, self-contained content that can be distributed and reused independently.
- (7) **<header>**: The header tag is used to define introductory content or a group of introductory elements at the beginning of a section or document.
- (8) **<footer>**: The footer tag is used to define the footer of a section or document, typically containing information such as copyright, authorship, or contact details.

These tags help to organize and structure the content of a webpage, making it more readable and accessible.

#### **(19)** What is SVG?

- SVG stands for Scalable Vector Graphics. It is an XML-based file format used for describing two-dimensional vector graphics. SVG files can be created and edited with any text editor and are typically used for web graphics, icons, illustrations, and interactive graphics.

SVG graphics are scalable, meaning they can be resized without loss of quality, making them ideal for responsive web design. They are also lightweight and can be easily manipulated using CSS and JavaScript, allowing for dynamic effects and animations.

SVG graphics can be embedded directly into HTML documents using the <svg> element or included as external files. They are supported by all modern web browsers, making them a versatile and widely used format for web graphics.

(20) What is difference between HTML and XHTML?

- HTML (HyperText Markup Language) and XHTML (eXtensible HyperText Markup Language) are both markup languages used for creating web pages, but they have some key differences:
1. Syntax:
- HTML syntax is more forgiving and allows for certain mistakes, such as unclosed tags or attributes without values.
- XHTML syntax is stricter and follows the rules of XML. All tags must be properly nested and closed, and attribute values must be enclosed in quotes.
2. Document Structure:
- In HTML, documents do not necessarily need to have a DOCTYPE declaration or adhere strictly to a specific document structure.
- XHTML documents must have a proper DOCTYPE declaration and follow a stricter document structure, including an HTML root element, head, and body sections.
3. Case Sensitivity:
- HTML is case-insensitive for element and attribute names.
- XHTML is case-sensitive for both element and attribute names, requiring consistency in casing throughout the document.
4. Browser Handling:
- HTML is more forgiving of errors and inconsistencies, and browsers are more lenient in parsing HTML documents.
- XHTML requires stricter adherence to rules, and browsers may not render XHTML documents correctly if they do not meet XML standards.
5. XML Compatibility:

- XHTML is compatible with XML tools and can be parsed and manipulated using XML parsers.
- HTML does not have the same compatibility with XML tools due to its looser syntax and rules.

In summary, XHTML is a stricter, XML-based version of HTML, requiring well-formed documents and offering compatibility with XML tools. HTML is more forgiving and flexible but lacks the strictness and XML compatibility of XHTML.

- (21) What are logical and physical tags in HTML?
- In HTML, "logical tags" and "physical tags" are terms that refer to different approaches in structuring the content of a document:

#### • Physical Tags:

- Physical tags describe how content should be presented visually. They specify
  the appearance or formatting of the content, such as bolding text, creating
  headings, or applying styles.
- Examples of physical tags include <b> for bold, <i> for italic, <font> for specifying font properties, and <u> for underline.
- Physical tags have been deprecated in favor of using CSS (Cascading Style Sheets) for styling and presentation.

### • Logical Tags:

- Logical tags describe the meaning or purpose of the content. They convey the semantic structure of the document, making it more accessible and understandable to both humans and machines.
- Examples of logical tags include for paragraphs, <h1> to <h6> for headings, and for unordered and ordered lists, for tables, and <form> for forms.
- Logical tags are essential for creating well-structured, semantic HTML documents that are accessible to assistive technologies and search engines.