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BCSE203E- Web Programming

Activity - 21.1.2.2024

Trace the output for the following elements and infer the similarities and differences

1. Div and span

Screenshot code	Screenshot output
<pre>div_span.html > html 1 <!DOCTYPE html> 2 <html> 3 4 <head> 5 <title>Difference</title> 6 <style> 7 div { 8 color: white; 9 margin: 2px; 10 font-size: 25px; 11 } 12 13 .div1 { background-color: rgb(17, 206, 36); } 14 .div2 { background-color: rgb(222, 228, 50); } 15 </style> 16 </head> 17 <body> 18 <h1>Difference between div and span tag</h1>
 19 <h3>This is divison tag:</h3> 20 <div class="div1"> div tag </div> 21 <div class="div2"> div tag </div> 22 <div class="div1"> div tag </div> 23 <div class="div2"> div tag </div> 24 <h3>This is span tag:</h3> 25 <p> 26 27 Web Development 28 29 is a very successful 30 31 domain 32 where you have 33 34 lots to learn 35 36 and experience 37 </p> 38 </body> 39 </html></pre>	<p>This is divison tag:</p> <div>div tag</div> <div>div tag</div> <div>div tag</div> <div>div tag</div> <p>This is span tag:</p> <p>Web Development is a very successful domain where you have lots to learn and experience!</p>
<p>Div – element used to group content and structure a webpage. It creates a new line and styled using CSS</p> <p>Span – inline HTML element used to style or manipulate small portions of text or content without breaking the line.</p>	

Inference -Use <div> for structure and for inline styling or specific text manipulation.

2. Div and section

Screenshot code	Screenshot output
<pre>div_section.html > html > head 1 <!DOCTYPE html> 2 <html> 3 <head> 4 <title>Difference</title> 5 <style> 6 div { 7 color: white; 8 margin: 2px; 9 font-size: 25px; 10 } 11 12 .div1 { background-color: rgb(17, 206, 36); } 13 .div2 { background-color: rgb(222, 228, 50); } 14 </style> 15 </head> 16 <body> 17 <h1>Difference between div and span tag</h1>
 18 <h3>This is divison tag:</h3> 19 <div class="div1"> div tag </div> 20 <div class="div2"> div tag </div> 21 <div class="div1"> div tag </div> 22 <div class="div2"> div tag </div> 23 <h3>This is section tag:</h3> 24 <section> 25 <h3>Steps to become better coder:</h3> 26 27 Learn Machine learning 28 Learn DSA 29 Learn Competitive programming 30 Learn Web-Development 31 Learn Java 32 33 </section> 34 </body> 35 </html></pre>	<h3>Difference between div and span tag</h3> <p>This is divison tag:</p> <div>div tag</div> <div>div tag</div> <div>div tag</div> <div>div tag</div> <p>This is section tag:</p> <p>Steps to become better coder:</p> <ul style="list-style-type: none">• Learn Machine learning• Learn DSA• Learn Competitive programming• Learn Web-Development• Learn Java
<p>Div – Doesn't convey any meaning; used for styling or layout purposes. Section– Indicates that the content inside is related and forms a distinct section of the document. Inference - Prefer <section> when you can logically group content with a heading.Use <div> only when semantic meaning is unnecessary or not applicable.</p>	

3. Paragraph and article

Screenshot code	Screenshot output
	<h3>Difference between Article and paragraph tag</h3> <p>This is Article tag:</p> <div>Web programming A Computer Science domain for students. the process of using coding to create websites and web applications that are accessible over the internet</div> <p>This is Paragraph tag:</p> <p>Hi This is a paragraph. This is Paragraph 1. It has multiple lines</p> <p>Paragraph tag creates paragraphes. This is Paragraph 2. It also has multiple lines</p>

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<!DOCTYPE html>
<html>
<head>
<style>
  article {
    background-color: #rgb(236, 233, 233);
    width: 300px;
    border: 2px solid black;
    padding: 5px;
    border-radius: 10px;
    margin: auto;
    box-sizing: border-box;
  }
</style>
</head>
<body>
<h1>Difference between Article and paragraph tag</h1><br>
<h3>This is Article tag:</h3>
<article>
  <h1>Web programming</h1>
  <p>
    A Computer Science domain for students.
    the process of using coding to create websites
    and web applications that are accessible over the internet
  </p>
</article>
<h3>This is Paragraph tag:</h3>
<div>
  <p>
    Hi This is a paragraph.
    This is Paragraph 1.<br>
    It has multiple lines
  </p>
  <p>
    Paragraph tag creates paragraphes.
    This is Paragraph 2. <br>
    It also has multiple lines
  </p>
</div>
</body>
</html>

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Paragraph– is used to define a single paragraph of text. It is meant for smaller chunks of text that are part of a larger structure, like a sentence or a few lines of content.

Article– is used to define a self-contained piece of content that can stand alone, such as a blog post, news article, or forum post

Inference - Use <p> for smaller text blocks. Use <article> for larger, independent content sections that can stand alone.

4. Navigation and anchor

Screenshot code	Screenshot output
	<p>Difference between Navigation and Anchor tag</p> <p>This is Navigation tag:</p> <p>Home About Contact</p> <p>Welcome to Home</p> <p>This is the home section.</p> <p>About Us</p> <p>Learn more about us here.</p> <p>Contact Us</p> <p>Get in touch with us.</p> <p>This is Anchor tag:</p> <p>Google</p>

<pre> navigation_anchor.html > html > body > h2 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>Navigation vs Anchor</title> 7 </head> 8 <body> 9 <h1>Difference between Navigation and Anchor tag</h1>
 10 <h2>This is Navigation tag:</h2> 11 <nav> 12 Home 13 About 14 Contact 15 </nav> 16 <section id="home"> 17 <h3>Welcome to Home</h3> 18 <p>This is the home section.</p> 19 </section> 20 <section id="about"> 21 <h3>About Us</h3> 22 <p>Learn more about us here.</p> 23 </section> 24 <section id="contact"> 25 <h3>Contact Us</h3> 26 <p>Get in touch with us.</p> 27 </section> 28 29 <h2>This is Anchor tag:</h2> 30 31 Google 32 33 </body> 34 </html> 35 </pre>	
<p>Navigation– contains multiple links (anchors) to navigate to different parts of the website or other pages</p> <p>Anchor – Can link to another webpage, a specific section of the same page, or an external resource.</p> <p>Inference -<nav> is a structural element that organizes navigation links, while <a> is the element used to create individual hyperlinks that perform the actual navigation.</p>	

5. Figure and image

Screenshot code	Screenshot output
<pre> figure_image.html > html > body > p 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>Figure vs Image</title> 7 </head> 8 <body> 9 <h1>Difference between Figure and Anchor tag</h1>
 10 <h2>This is Figure tag:</h2> 11 <figure> 12 14 <figcaption>This is a caption describing the figure.</figcaption> 15 </figure> 16 17 <h2>This is image tag:</h2> 18 20 <p>this is text in paragraph but to as caption</p> 21 </body> 22 </html> 23 </pre>	<p>Difference between Figure and Anchor tag</p> <p>This is Figure tag:</p>  <p>This is a caption describing the figure.</p> <p>This is image tag:</p>  <p>this is text in paragraph but to as caption</p>

Figure– is used to semantically organize the content of images, videos, audios or even charts or tables, block of codes in the HTML document.

Image– The image tag is used to add an image to an HTML page. tag can only insert image.

Inference Use <figure> when you need to group an image with a caption or description.

Use when you just want to display an image without needing any associated text or additional context.

6. Label and legends

Screenshot code	Screenshot output
<pre>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>Label vs Legend</title> 7 </head> 8 <body> 9 <h1>Difference between Navigation and Anchor tag</h1>
 10 <h2>This is Label tag:</h2> 11 <form> 12 <label for="name">Name:</label> 13 <input type="text" id="name" name="name"> 14 </form> 15 <h2>This is Legend tag:</h2> 16 <form> 17 <fieldset> 18 <legend>Personal Information</legend> 19 <label for="email">Email:</label> 20 <input type="email" id="email" name="email"> 21 <label for="phone">Phone:</label> 22 <input type="text" id="phone" name="phone"> 23 </fieldset> 24 </form> 25 </body> 26 </html> 27</pre>	<p>Difference between Navigation and Anchor tag</p> <p>This is Label tag:</p> <p>Name: <input type="text"/></p> <p>This is Legend tag:</p> <p>Personal Information</p> <p>Email: <input type="text"/> Phone: <input type="text"/></p>

Label – is used for labeling individual form elements to enhance accessibility and usability.

Legends– is used for providing a title or description for a group of form elements, enhancing the clarity and organization of the form.

Inference -The <label> element is used to associate text with individual form controls, while the <legend> element provides a title or description for a group of related form controls within a <fieldset>.

7. Strong vs bold vs emphasis tag

Screenshot code	Screenshot output

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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>Strong, Bold, Emphasis Example</title>
7 </head>
8 <body>
9   <h1>Difference between Strong and Bold and Emphasis tag</h1><br>
10  <h2>This is Strong tag:</h2>
11  <p><strong>This is important text.</strong></p>
12  <h2>This is Bold tag:</h2>
13  <p><b>This is bold text without importance.</b></p>
14  <h2>This is emphasis tag:</h2>
15  <p><em>This is emphasized text.</em></p>
16 </body>
17 </html>
18

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Difference between Strong and Bold and Emphasis tag

This is Strong tag:

This is important text.

This is Bold tag:

This is bold text without importance.

This is emphasis tag:

This is emphasized text.

Strong– Use **** for important content (semantic importance).

Emphasis– Use **** for emphasizing content (semantic emphasis), which can change the meaning or tone of the text.

Bold- Use **** for purely visual bolding without implying meaning.

Inference - The **** element indicates importance and renders text as bold by default, while **** is purely for visual bolding without implying significance, and **** emphasizes text to suggest a change in meaning or tone, typically rendering it in italics.