

### **BCSE203E-Web Programming**

### **Activity -4**

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

### 1. Div and span

## Screenshot code Screenshot output <!DOCTYPE html> This is a div container. This is a span element inside a div. <title>Div and Span Example</title> <style> Another div container. This span has no styling applied. .div-box { border: 2px solid black; padding: 10px; margin: 10px; .span-highlight { color:blue; font-weight: bold; </style> </head> <body> <div class="div-box"> This is a div container. <span class="span-highlight">This is a span element inside a div.</span> </div> <div class="div-box"> Another div container. <span>This span has no styling applied.</span> </div> </body> </html>

Div – Block-level element used for structuring and sectioning content. Span – Inline element used for styling or grouping small portions of text Inference - Divs organize layouts; spans apply styles within existing text flow.

#### 2. Div and section

```
Screenshot code
                                                 Screenshot output
<!DOCTYPE html>
                                                 Div Example
<html>
                                                 This is a generic block container for grouping content.
                                                 Section Example
     <title>Div vs Section</title>
                                                 This defines a thematic grouping of content, such as a chapter or topic.
<body>
    <div>
         <h2>Div Example</h2>
         This is a generic block
container for grouping content.
    </div>
    <section>
         <h2>Section Example</h2>
         This defines a thematic
grouping of content, such as a chapter
or topic.
     </section>
</body>
</html>
```

Div – Generic block-level element for grouping content without semantic meaning. Section– Block-level element specifically used to define thematic or logical sections of content.

Inference - Use div for styling or generic grouping; use section for semantically meaningful divisions of a document.

### 3. Paragraph and article

Screenshot code	Screenshot output
html	
<html></html>	
<head></head>	
<title>Paragraph vs&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Article</title>	
<body></body>	

```
This is a single
paragraph,
       part of the document's
main content.
    <article>
       <h2>Article Example</h2>
       This is the first
paragraph
           of an article.
       This is the second
paragraph,
           expanding on the
topic.
    </article>
</body>
</html>
```

This is a single paragraph, part of the document's main content.

# **Article Example**

This is the first paragraph of an article.

This is the second paragraph, expanding on the topic.

Paragraph—Used for grouping a block of text into smaller, readable units.

Article– Represents a self-contained, standalone piece of content like an article, blog post, or news story.

Inference - Use p for individual paragraphs. Use article for self-contained, reusable content blocks.

## 4. Navigation and anchor

```
Screenshot code
                                     Screenshot output
<!DOCTYPE html>
                                      Home About Contact
<html>
<head>
                                      Learn more on our FAQ page.
    <title>Navigation vs
Anchor</title>
</head>
<body>
    <nav>
        <a
href="home.html">Home</a>
href="about.html">About</a>
href="contact.html">Contact</a>
    </nav>
    Learn more on our <a
href="faq.html">FAQ page</a>.
</body>
</html>
```

Navigation– Groups multiple navigation links and adds semantic meaning for menus or navigation bars.

Anchor – Represents individual hyperlinks to navigate between pages, sections, or resources.

Inference - Use <nav> for organizing navigation links; use <a> for creating individual links.

### 5. Figure and image



Figure- A container for media content (images, videos, charts, etc.) along with its caption.

Image– Represents an image or graphic within a webpage.

Inference - Use <figure> to group media with a caption (<figcaption>). Use <img> to embed a standalone image without additional semantic structure.

#### 6. Label and legends

Screenshot code	Screenshot output
html <html> <head></head></html>	Username: Personal Information First Name: Last Name:

```
<form>
         <fieldset>
             <legend>Personal
Information</legend>
             <label
for="fname">First Name:</label>
            <input type="text"</pre>
id="fname" name="fname">
             <br>
             <label</pre>
for="lname">Last Name:</label>
            <input type="text"</pre>
id="lname" name="lname">
        </fieldset>
    </form>
</body>
</html>
```

Label – Used to associate text with a specific form input (e.g., text fields, checkboxes).

Legends– Provides a caption or title for a group of related form elements, grouped using a <fieldset>.

Inference - Use <label> to describe individual inputs. Use <legend> to caption grouped inputs within a <fieldset>.

## 7. Strong vs bold vs emphasis tag

## Screenshot code Screenshot output <!DOCTYPE html> This text is **bold** for styling. <html> This text has strong importance in meaning <title>Strong vs Bold vs Emphasis</title> This text is *emphasized* for stress in context. </head> <body> This text is <b>bold</b> for styling. This text has <strong>strong importance</strong> in meaning. This text is <em>emphasized for stress in context. </body>

Strong– Emphasizes text with semantic meaning, indicating importance or seriousness.

Emphasis- Adds semantic emphasis to text, indicating stress or importance in context.

Bold- Makes text visually bold without implying importance or context

Inference - Use <b > for styling, <strong > for semantic importance, and <em > for contextual stress or emphasis.