



## **BCSE203E- Web Programming**

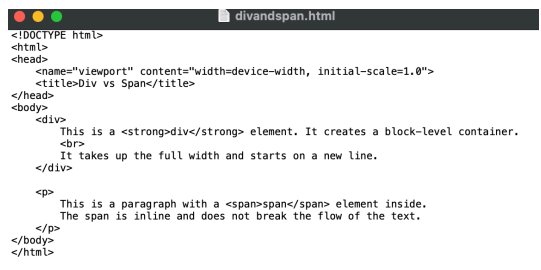

### **Activity -21.1.2.2024**

**NAME : SHASWATHA.S.S**

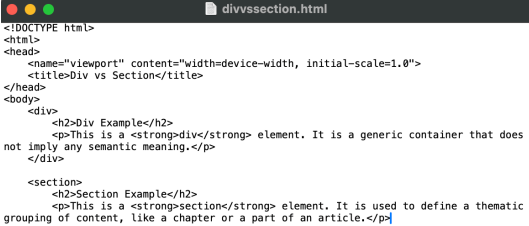

**REG.NO : 23BCT0043**

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

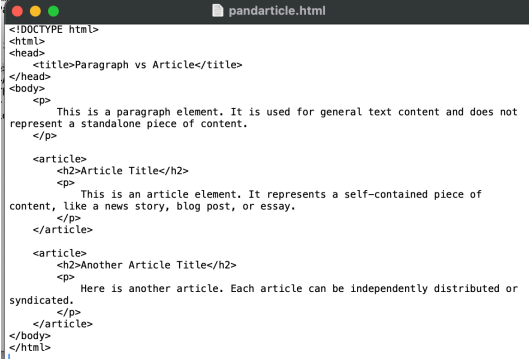

#### 1. Div and span

Screenshot code	Screenshot output
 <pre>&lt;!DOCTYPE html&gt; &lt;html&gt; &lt;head&gt;   &lt;meta name="viewport" content="width=device-width, initial-scale=1.0"&gt;   &lt;title&gt;Div vs Span&lt;/title&gt; &lt;/head&gt; &lt;body&gt;   &lt;div&gt;     This is a &lt;strong&gt;div&lt;/strong&gt; element. It creates a block-level container.     &lt;br&gt;     It takes up the full width and starts on a new line.   &lt;/div&gt;    &lt;p&gt;     This is a paragraph with a &lt;span&gt;span&lt;/span&gt; element inside.     The span is inline and does not break the flow of the text.   &lt;/p&gt; &lt;/body&gt; &lt;/html&gt;</pre>	 <p>It takes up the full width and starts on a new line.</p> <p>This is a paragraph with a span element inside. The span is inline and does not break the flow of the text.</p>
<p>Div – Called as division tag. It is used for style purposes.</p> <p>Span – inline container used to mark up a part of a text, or a part of a document</p> <p>Inference :</p> <ul style="list-style-type: none"><li>• Div is used for block level organization and styling of page elements.</li><li>• span element is used for inline organization and styling</li></ul>	

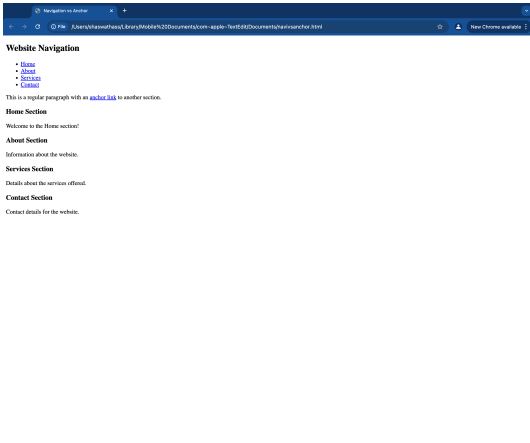
## 2. Div and section

Screenshot code	Screenshot output
 <pre>&lt;!DOCTYPE html&gt; &lt;html&gt; &lt;head&gt;   &lt;meta name="viewport" content="width=device-width, initial-scale=1.0"&gt;   &lt;title&gt;Div vs Section&lt;/title&gt; &lt;/head&gt; &lt;body&gt;   &lt;div&gt;     &lt;h2&gt;Div Example&lt;/h2&gt;     &lt;p&gt;This is a &lt;strong&gt;div&lt;/strong&gt; element. It is a generic container that does not imply any semantic meaning.&lt;/p&gt;   &lt;/div&gt;    &lt;section&gt;     &lt;h2&gt;Section Example&lt;/h2&gt;     &lt;p&gt;This is a &lt;strong&gt;section&lt;/strong&gt; element. It is used to define a thematic grouping of content, like a chapter or a part of an article.&lt;/p&gt;   &lt;/section&gt; &lt;/body&gt; &lt;/html&gt;</pre>	 <p><b>Div Example</b> This is a <b>div</b> element. It is a generic container that does not imply any semantic meaning.</p> <p><b>Section Example</b> This is a <b>section</b> element. It is used to define a thematic grouping of content, like a chapter or a part of an article.</p>
<p>Div – Called as division tag. It is used for style purposes.</p> <p>Section – Called as section tag. Used during requirements of header and footer.</p> <p>Inference :</p> <ul style="list-style-type: none"><li>• Div is used for block level organization and styling of page elements.</li><li>• Section is used during requirements of header and footer.</li></ul>	


## 3. Paragraph and article

Screenshot code	Screenshot output
 <pre>&lt;!DOCTYPE html&gt; &lt;html&gt; &lt;head&gt;   &lt;title&gt;Paragraph vs Article&lt;/title&gt; &lt;/head&gt; &lt;body&gt;   &lt;p&gt;     This is a paragraph element. It is used for general text content and does not represent a standalone piece of content.   &lt;/p&gt;    &lt;article&gt;     &lt;h2&gt;Article Title&lt;/h2&gt;     &lt;p&gt;       This is an article element. It represents a self-contained piece of content, like a news story, blog post, or essay.     &lt;/p&gt;   &lt;/article&gt;    &lt;article&gt;     &lt;h2&gt;Another Article Title&lt;/h2&gt;     &lt;p&gt;       Here is another article. Each article can be independently distributed or syndicated.     &lt;/p&gt;   &lt;/article&gt; &lt;/body&gt; &lt;/html&gt;</pre>	 <p>This is a paragraph element. It is used for general text content and does not represent a standalone piece of content.</p> <p><b>Article Title</b> This is an article element. It represents a self-contained piece of content, like a news story, blog post, or essay.</p> <p><b>Another Article Title</b> Here is another article. Each article can be independently distributed or syndicated.</p>
<p>Paragraph – It is a presentational and semantic tag.</p> <p>Article – It is a semantic tag</p> <p>Inference :</p> <ul style="list-style-type: none"><li>• paragraph is used while adding multiple paragraphs in articles, stories, in formative blogs.</li><li>• article is used blog activities, newspapers / magazines articles and forum post.</li></ul>	

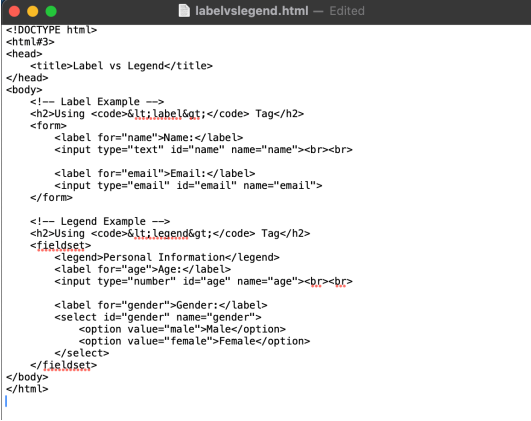
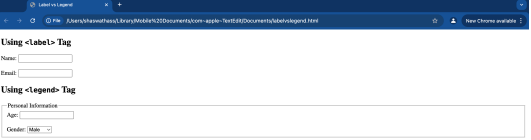
## 4. Navigation and anchor

Screenshot code	Screenshot output
<pre>&lt;!DOCTYPE html&gt; &lt;html lang="en"&gt; &lt;head&gt; &lt;title&gt;Navigation vs Anchor&lt;/title&gt; &lt;/head&gt; &lt;body&gt; &lt;!-- Navigation Section using &lt;nav&gt; --&gt; &lt;nav&gt; &lt;h2&gt;Website Navigation&lt;/h2&gt; &lt;ul&gt; &lt;li&gt;&lt;a href="#home"&gt;Home&lt;/a&gt;&lt;/li&gt; &lt;li&gt;&lt;a href="#about"&gt;About&lt;/a&gt;&lt;/li&gt; &lt;li&gt;&lt;a href="#services"&gt;Services&lt;/a&gt;&lt;/li&gt; &lt;li&gt;&lt;a href="#contact"&gt;Contact&lt;/a&gt;&lt;/li&gt; &lt;/ul&gt; &lt;/nav&gt;  &lt;p&gt;This is a regular paragraph with an &lt;a href="#more-info"&gt;anchor link&lt;/a&gt; to another section.&lt;/p&gt;  &lt;section id="home"&gt; &lt;h3&gt;Home Section&lt;/h3&gt; &lt;p&gt;Welcome to the Home section!&lt;/p&gt; &lt;/section&gt;  &lt;section id="about"&gt; &lt;h3&gt;About Section&lt;/h3&gt; &lt;p&gt;Information about the website.&lt;/p&gt; &lt;/section&gt;  &lt;section id="services"&gt; &lt;h3&gt;Services Section&lt;/h3&gt; &lt;p&gt;Details about the services offered.&lt;/p&gt; &lt;/section&gt;  &lt;section id="contact"&gt; &lt;h3&gt;Contact Section&lt;/h3&gt; &lt;p&gt;Contact details for the website.&lt;/p&gt; &lt;/section&gt; &lt;/body&gt; &lt;/html&gt;</pre>	
<p>Navigation – Defines a section of a webpage that contains navigation.</p> <p>Anchor – Creates a link to another page/file/email</p> <p>Inference :</p> <ul style="list-style-type: none"><li>• Navigation is used for structuring and organizing links using elements like <code>&lt;nav&gt;</code> to allow users to move easily between pages or sections of a website.</li><li>• Anchor is used to create hyperlinks.</li></ul>	

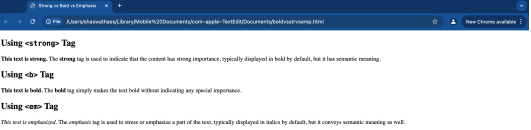
## 5. Figure and image

Screenshot code	Screenshot output
<pre>&lt;!DOCTYPE html&gt; &lt;html lang="en"&gt; &lt;head&gt; &lt;title&gt;Figure vs Image&lt;/title&gt; &lt;/head&gt; &lt;body&gt; &lt;!-- Image tag alone --&gt; &lt;h2&gt;Using &lt;code&gt;&lt;img alt="img alt" /&gt;&lt;/code&gt; Tag&lt;/h2&gt; &lt;img src="picture.jpg" height="100px" width="100px"&gt;  &lt;!-- Figure tag with an image and caption --&gt; &lt;h2&gt;Using &lt;code&gt;&lt;img alt="img alt" /&gt;&lt;/code&gt; Tag&lt;/h2&gt; &lt;figure&gt; &lt;img src="picture.jpg" height="100px" width="100px"&gt; &lt;figcaption&gt;This is a computer.&lt;/figcaption&gt; &lt;/figure&gt; &lt;/body&gt; &lt;/html&gt;</pre>	
<p>Figure– Used to add context and meaning with captions along with the image.</p> <p>Image– Used for displaying an image.</p> <p>Inference :</p> <ul style="list-style-type: none"><li>• Image is used to embed and display images in a web page, requiring a <code>&lt;src&gt;</code> attribute for the image source and an <code>&lt;alt&gt;</code> attribute for accessibility.</li><li>• Figure is used to group self-contained media content, like images or illustrations, often accompanied by a <code>&lt;figcaption&gt;</code> for captions.</li></ul>	

## 6. Label and legends

Screenshot code	Screenshot output
 <pre>&lt;!DOCTYPE html&gt; &lt;html#3&gt; &lt;head&gt;   &lt;title&gt;Label vs Legend&lt;/title&gt; &lt;/head&gt; &lt;body&gt;   &lt;!-- Label Example --&gt;   &lt;h2&gt;Using &lt;code&gt;&lt;label&gt;&lt;/code&gt; Tag&lt;/h2&gt;   &lt;form&gt;     &lt;label for="name"&gt;Name:&lt;/label&gt;     &lt;input type="text" id="name" name="name"&gt;&lt;br&gt;     &lt;label for="email"&gt;Email:&lt;/label&gt;     &lt;input type="email" id="email" name="email"&gt;   &lt;/form&gt;    &lt;!-- Legend Example --&gt;   &lt;h2&gt;Using &lt;code&gt;&lt;legend&gt;&lt;/code&gt; Tag&lt;/h2&gt;   &lt;fieldset&gt;     &lt;legend&gt;Personal Information&lt;/legend&gt;     &lt;label for="age"&gt;Age:&lt;/label&gt;     &lt;input type="number" id="age" name="age"&gt;&lt;br&gt;     &lt;label for="gender"&gt;Gender:&lt;/label&gt;     &lt;select id="gender" name="gender"&gt;       &lt;option value="male"&gt;Male&lt;/option&gt;       &lt;option value="female"&gt;Female&lt;/option&gt;     &lt;/select&gt;   &lt;/fieldset&gt; &lt;/body&gt; &lt;/html&gt;</pre>	
<p>Label – Describes and links text to a single form control. Legends – Provides a title for a group of related controls. Inference :</p> <ul style="list-style-type: none"><li>• Label is used to associate descriptive text with a specific form control.</li><li>• Legend provides a caption or title for a group of related form controls enclosed within a <code>&lt;fieldset&gt;</code> , enhancing structure and context for the form group.</li></ul>	

## 7. Strong vs bold vs emphasis tag

Screenshot code	Screenshot output
 <pre>&lt;!DOCTYPE html&gt; &lt;html lang="en"&gt; &lt;head&gt;   &lt;title&gt;Strong vs Bold vs Emphasis&lt;/title&gt; &lt;/head&gt; &lt;body&gt;   &lt;h2&gt;Using &lt;code&gt;&lt;strong&gt;&lt;/code&gt; Tag&lt;/h2&gt;   &lt;p&gt;&lt;strong&gt;This text is strong.&lt;/strong&gt; The &lt;strong&gt;strong&lt;/strong&gt; tag is used to indicate that the content has strong importance, typically displayed in bold by default, but it has semantic meaning.&lt;/p&gt;    &lt;h2&gt;Using &lt;code&gt;&lt;b&gt;&lt;/code&gt; Tag&lt;/h2&gt;   &lt;p&gt;&lt;b&gt;This text is bold.&lt;/b&gt; The &lt;b&gt;bold&lt;/b&gt; tag simply makes the text bold without indicating any special importance.&lt;/p&gt;    &lt;h2&gt;Using &lt;code&gt;&lt;em&gt;&lt;/code&gt; Tag&lt;/h2&gt;   &lt;p&gt;&lt;em&gt;This text is emphasized.&lt;/em&gt; The &lt;em&gt;emphasis&lt;/em&gt; tag is used to stress or emphasize a part of the text, typically displayed in italics by default, but it conveys semantic meaning as well.&lt;/p&gt; &lt;/body&gt; &lt;/html&gt;</pre>	

Strong – Adds semantic importance or seriousness.

Emphasis – Adds semantic emphasis or stress.

Bold - Adds visual boldness with no semantic meaning.

Inference :

- Strong indicates strong importance or seriousness of text, often rendered as bold by default.
- Emphasis denotes emphasized text, indicating stress or importance in context. Often rendered as italic.
- Bold represents visually bold text without conveying any additional importance or emphasis.