DAY 5: HTML Block and Inline, HTML Classes, HTML Id, HTML Iframes, HTML Forms.

**HTML Block and Inline Elements**

Every HTML element has a default display value, depending on what type of element it is. There are two display values: block and inline.

**Block-level Elements**

A block-level element always starts on a new line, and the browsers automatically add some space (a margin) before and after the element. A block-level element always takes up the full width available. Two commonly used block elements are: <**p**> and <**div**>.

The <**p**> element defines a paragraph in an HTML document.

The <**div**> element defines a division or a section in an HTML document.

*Example:*

|  |
| --- |
| *<p>Hello World</p>*  *<div>Hello World</div>* |

**Inline Elements**

An inline element does not start on a new line. An inline element only takes up as much width as necessary. This is a <**span**> element inside a paragraph.

*Example:*

|  |
| --- |
| *<p>This is an inline span <****span*** *style="font-size: 20px; border: 1px solid black">Hello World</****span****> element inside a paragraph.</p>* |

**HTML Classes**

The **class** attribute is used to specify a **class** for an HTML element. Multiple HTML elements can share the same class. The class name is case sensitive.

*Example:*

|  |  |  |
| --- | --- | --- |
| *<html>*  *<head>*  *<style>*  *.city { border: 2px solid black; margin: 20px; padding: 20px;}*  *h2 { font-style: italic; }*  *</style>*  *</head>*  *<body>*  *<div class="city">*  *<h2>London</h2>*  *<p>London is the capital of England.</p>*  *</div>*  *</body></html>* | |  | | --- | | ***London***  London is the capital of England. | |

**HTML id Attribute**

The HTML **id** attribute is used to specify a unique **id** for an HTML element. You cannot have more than one element with the same **id** in an HTML document. The id attribute is used to point to a specific style declaration in a style sheet.

The syntax for id is: write a hash character (#), followed by an id name. Then, define the CSS properties within curly braces {}.

The id name is case sensitive it must contain at least one character, cannot start with a number, and must not contain whitespaces (spaces, tabs, etc.).

*Example:*

|  |  |
| --- | --- |
| *HTML Code* | *Output* |
| *<html>*  *<head>*  *<style>*  *#myHeader {*  *border: 1px solid;*  *color: black;*  *padding: 40px;*  *text-align: center;*  *}*  *</style>*  *</head>*  *<body>*  *<h2>The id Attribute</h2>*  *<h1 id="myHeader">My Header</h1>*  *</body>*  *</html>* | The id AttributeMy Header |

**HTML Iframes**

An HTML iframe is used to display a web page within a web page.

*Syntax:*

*<iframe src="url" title="*description*"></iframe>*

Use the height and width attributes to specify the size of the iframe.

|  |
| --- |
| *<iframe src="demo\_iframe.htm" height="200" width="300" title="Iframe Example"></iframe>* |

Or you can add the style attribute and use the CSS height and width properties

|  |
| --- |
| *<iframe src="demo\_iframe.htm" style="height:200px;width:300px;" title="Iframe Example"></iframe>* |

By default, an iframe has a border around it. To remove the border, add the style attribute and use the CSS border property.

*<iframe src="demo\_iframe.htm" style="border:none;" title="Iframe Example"></iframe>*

**HTML Forms**

An HTML form is used to collect user input. The user input is most often sent to a server for processing.

|  |  |
| --- | --- |
| *HTML Code* | *Output* |
| <html>  <body>  <h2>HTML Forms</h2>  <form action="/action\_page.php">  <label for="fname">First Name:</label><br>  <input type="text" id="fname" name="fname" value="Sharlin"><br>  <label for="lname">Last Name:</label><br>  <input type="text" id="lname" name="lname" value="Lins"><br><br>  <input type="submit" value="Submit">  </form>  </body>  </html> | **HTML Forms**  Top of Form  First Name:  Last Name:  Bottom of Form |

**The <input> Element**

The <**input**> element is the most used form element. An <**input**> element can be displayed in many ways, depending on the **type** attribute.

|  |  |
| --- | --- |
| **Type** | **Description** |
| <input type="text"> | Displays a single-line text input field |
| <input type="radio"> | Displays a radio button (for selecting one of many choices) |
| <input type="checkbox"> | Displays a checkbox (for selecting zero or more of many choices) |
| <input type="submit"> | Displays a submit button (for submitting the form) |
| <input type="button"> | Displays a clickable button |

*Syntax:*

*<input type="text">*

**The <label> Element**

The <**label**> tag defines a label for many form elements. The <**label**> element is useful for screen-reader users, because the screen-reader will read out loud the label when the user focus on the input element.

The **for** attribute of the <**label**> tag should be equal to the **id** attribute of the <**input**> element to bind them together.

|  |
| --- |
| *<label for="fname">First Name:</label>*  *<input type="text" id="fname" name="fname" value="Sharlin">* |

**Radio Buttons**

The <input type="radio"> defines a radio button. Radio buttons let a user select ONE of a limited number of choices.

*Example:*

|  |  |
| --- | --- |
| *HTML Code* | *Output* |
| *<html>*  *<body>*  *<p>Choose your favourite Web language:</p>*  *<form>*  *<input type="radio" id="python" name="fav\_language" value="HTML">*  *<label for="python">Python</label><br>*  *<input type="radio" id="react" name="fav\_language" value="CSS">*  *<label for="react">React</label><br>*  *<input type="radio" id="java" name="fav\_language" value="JavaScript">*  *<label for="java">Java</label>*  *</form>*  *</body>*  *</html>* | Choose your favourite Web language:  Top of Form     Python      React      Java  Bottom of Form |

**Checkboxes**

The <input type="checkbox"> defines a checkbox. Checkboxes let a user select ZERO or MORE options of a limited number of choices.

|  |  |
| --- | --- |
| *HTML Code* | *Output* |
| *<html>*  *<body>*  *<p>Select the list of vehicle:</p>*  *<form action="/action\_page.php">*  *<input type="checkbox" id="car" name="car" value="Car">*  *<label for="car">Car</label><br>*  *<input type="checkbox" id="bike" name="bike" value="Bike">*  *<label for="bike">Bike</label><br>*  *<input type="checkbox" id="bus" name="bus" value="Bus">*  *<label for="bus">Bus</label><br><br>*  *<input type="submit" value="Submit">*  *</form>*  *</body>*  *</html>* | Select the list of vehicle:  Top of Form   Car  Bike  Bus  Bottom of Form |