**HTML :** Hyper Text Markup Language to create and structure content for web pages

**Anatomy of an HTML Element:**

<tagname attribute="value">Content</tagname>

tagname>: The name of the HTML element | attribute: An attribute of the HTML element

value: The value of the attribute | Content: The content of the HTML element

**Basic HTML Tags:**

<!DOCTYPE html>: Defines the document type and version of HTML. | <html>: The root element of an HTML page. | <head>: Contains metadata about the HTML document. | <title>: Specifies the title of the HTML document. | <body>: Contains the visible content of the HTML document.

**Text Formatting Tags:**

<h1> to <h6>: Defines headings and subheadings. | <p>: Defines a paragraph. | <br>: Inserts a line break.

<hr>: Inserts a horizontal rule. | <strong>: Defines strong emphasis. | <em>: Defines emphasized text.

<span> element is an inline container for text and can be used to group text for styling purposes

**Comment:** <!—These is a comment-->

**Image Tags:** It is a void tag means it has no content and ending Tag

<img src="url" alt="description">: Inserts an image. |src: Specifies the URL of the image.

alt: Specifies a text description of the image.

**Link Tags:** <a href="url">text</a>: Creates a hyperlink. |href: Specifies the URL of the page to link to.

**List Tags:** <ul>: Creates an unordered list. | <ol>: Creates an ordered list. | <li>: Defines a list item. |

<dl>: Creating Defination List | <dt>: Defines a term | <dd>: Creates the definition for term

**Table Tags:** <tr>,<td> : table row, table dataelement | <thead>,<tbody>,<tfoot> :defines the headings and body ,footer in table | rowspan,colspan :merging of cells ,value- 1 to 65534 | <th> is used to add titles to rows and columns of a table, inline element

**Form Tags:** <form>: Creates a form. | <input>: Defines an input field(type(text,password,number,range,radio,checkbox,submit,reset),value,name,required(true,false),(validations like min and max value, min and maxlength)| <textarea>: Defines a multiline input field. | <select>: Creates a dropdown list. |<option>: Defines an option in a dropdown list.

<button>: Defines a clickable button. | <label> it defines a label for any input element

**Miscellaneous Tags:** <div>: Defines a container for HTML elements. | <span>: Defines a small container for HTML elements. <style>: Defines CSS styles for HTML elements.(It css styles are done at head part)

<script>: Defines JavaScript code to be executed.(Javascript code should be at the bottom of body)

**Semantic HTML :** provides the content in the webpage in a meaning full manner

<header> It defines the header of the web page <nav> defines the navigation bar

<main> defines the main content of page <footer> creates the footer of the page

<article> to write independent content

<section> defines elements in a document

<aside> to give additional information apart from main content

<figure> element is used to encapsulate media such as an image, diagram. or code snippet.

<figcaption> element is used to describe the media encapsulated within the <figure> element

<video> allows us to add videos to our website.

<audio> allows us to implement audio into our website.

 <embed> can be used to implement any type of media.