Basic Structure Tags

□ <!DOCTYPE html>

- Definition: Declares the document type and version of HTML being used (HTML5).
- Example: <!DOCTYPE html>

□ <html>

- Definition: The root element that contains all the HTML code.
- Example:

□ <head>

- Definition: Contains meta-information about the HTML document, such as its title and links to stylesheets.
- Example:

```
<head>
<title>Page Title</title>
</head>
```

□<body>

- Defination: Contains the contain of the web page, such as text image and links.

□<title>

</body>

- Definations: Sets the title of the webpage, which appears in the browser tab.
- Example: <title>My web page</title>

Metadata Tags

☐ <meta>

- Definition: Provides metadata such as the character set, viewport settings, and SEO keywords.
- Example:

```
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

□<link>

- Definition: Links external resources like stylesheets.
- Example: link rel="stylesheet" href="styles.css">

□<script>

- Definition: Embeds internal CSS styles within the HTML document.
- Example:

```
<style>
body { background-color: lightblue; }
</style>
```

□ <script>

- Definition: Embeds or references JavaScript code within the HTML document.
- Example:

<script src="script.js"></script>

Text and Structural tag

- \square (Paragraph)
 - Definition: Defines a paragraph of text.
 - Example: This is a paragraph of text.

\square <h1> to <h6> (Headings)

- Definition: Defines HTML headings, with <h1> being the highest (or most important) and <h6> the lowest.
- Example:

```
<h1>Heading 1</h1>
```

□
 (Line Break)

- Definition: Inserts a line break in the text.
- Example: This is a line of text.
This is another line of text.

□<hr> (Horizontal Rule)

- Definition: Inserts a horizontal line, typically used to separate content.
- Example:

<hr>

Text Formating Tags

- □ (Bold)
 - Definition: Makes the enclosed text bold.
 - Example: This text is bold
- \Box <i> (Italic)
 - Definition: Italicizes the enclosed text.
 - Example: <i>This text is italic</i></i>
- □<u> (Underline)
 - Definition:Underlines the enclosed text.
 - Example:
 - <u>This text is underlined</u>

□ (Strong Emphasis)

- Definition: Indicates that the text has strong importance; typically renders in bold.
- Example:

This text is strongly emphasized

□ (Emphasis)

- Definition: Emphasizes the text; typically renders in italics.
- Example: This text is emphasized

□<mark> (Highlights Text)

- Definition: Highlights the enclosed text.
- Example: <mark>This text is Highlighted</mark>

□<Small> (Small text)

- Definition: Decreases the size of the enclosed text.
- Example:

<small>This text is underlined</small>

\square <Big> (Big text)

- Definition: Increased the size of the enclosed text.
- Example:

big>This text is big</big>

□<sup> (Superscript)

- Definition: Displays the text as superscript (raised text).
- Example: x²

□<sub> (Subscript)

- Definition: Displays the text as subscript (lowered text).
- Example: <mark>This text is Highlighted</mark>

□<strike>/ (deleted text)

- Definition: Strikes through the enclosed text, indicating it as deleted.
- Example:
 - This text is deleted
 - <strike> This text is strike</strike>

□ (Preformatted Text)

- Definition: Preserves both spaces and line breaks.
- Example:

```
This text is
    preformatted
```

Links

- □Links are created using the <a> (anchor) tag in HTML, which allows you to navigate between different pages or resources.
 - <a> Tag
 - Purpose: Creates a hyperlink to another webpage or resource.
 - Attributes:
 - href: Specifies the URL of the page or resource the link points to or can link to another HTML file.
 - Example:

```
<a href="https://www.example.com" > Visit Example </a> <a href="../Next.html" > Visit Example </a>
```

Lists

Lists are used to group related items in a structured format. HTML provides three types of lists: **unordered lists**, **ordered lists**, and **definition lists**.

Tag

• Purpose: Creates an unordered list, where list items are typically displayed with bullet points.

```
li>ltem 1li>ltem 2li>ltem 3
```

Lists

Lists are used to group related items in a structured format. HTML provides three types of lists: **unordered lists**, **ordered lists**, and **definition lists**.

Tag

- Purpose: Creates an ordered list, where list items are numbered.
- Attibutes :
 - Start: Specifies the starting number for the list items.
 - Type: Specifies the type of numbering (1,A,a,I,i)

Lists

Lists are used to group related items in a structured format. HTML provides three types of lists: **unordered lists**, **ordered lists**, and **definition lists**.

Tag

• Purpose: Defines an individual list item within an unordered or ordered list..

Example:

```
List item 1List item 2
```

<u>Tables</u>

☐ Tables are used to organize data into rows and columns, making it easy to display structured information.

□ Tag

- Purpose: Creates a table to display data.
- Attributes:
 - border: Specifies the width of the table's borders.

□ Tag

• Purpose: Defines a header cell in a table, usually displayed as bold and centered.

□ Tag

• **Purpose:** Defines a standard cell in a table (Use for inserting table data).

□ Tag

Purpose: Defines row in the table.

Tables Attibutes

☐ Rowspan Attibute

- Purpose: The rowspan attribute is used to merge a cell across multiple rows in a table. It allows a single cell to span across two or more rows.
- Example:

```
Content
```

☐Colspan Attibute

- Purpose: The colspan attribute is used to merge a cell across multiple columns in a table. It allows a single cell to span across two or more columns.
- Example:

```
Content
```

Example for Tables

```
Header spanning two columns
Header 3
This cell spans two rows
Row 1, Column 2
Row 1, Column 3
This cell spans two columns
```

□ Tag

- Purpose: Embeds an image in a web page.
- Attributes:
 - src: Specifies the path to the image.
 - alt: Provides alternative text for the image if it cannot be displayed.
 - width and height: Specifies the dimensions of the image.

Example:

□<audio> Tag

- Purpose: Embeds an audio file in a web page.
- Attributes:
 - src: Specifies the path to the audio file.
 - controls: Adds audio controls such as play, pause, and volume.
 - autoplay: Automatically starts playing the audio when the page loads.
 - loop: Repeats the audio playback when it ends.
 - Muted: Mute the audio when the page is initially run.

Example:

□<video> Tag

- Purpose: Embeds an video file in a web page.
- Attributes:
 - src: Specifies the path to the video file.
 - controls: Adds video controls such as play, pause, and volume.
 - autoplay: Automatically starts playing the video when the page loads.
 - loop: Repeats the video playback when it ends.
 - width and height: Specifies the dimensions of the video.
 - Muted: Mute the video when the page is initially run.

Example:

□<embed> Tag

- Purpose: Embeds external content or plugins, such as a PDF viewer, in a web page.
- Attributes:
 - src: Specifies the path to the embedded file.
 - width and height: Specifies the dimensions of the embedded content.
 - type: Specifies the MIME type of the embedded content.

Example:

<embed src="document.pdf" width="600" height="500" type="application/pdf">

Multimedia

□<object > Tag

- Purpose: Embeds multimedia objects such as images, videos, and PDFs. It can also be used to embed HTML content.
- Attributes:
 - data: Specifies the path to the object file.
 - type: Specifies the MIME type of the object.
 - width and height: Specifies the dimensions of the object.

Example:

```
<object data="document.pdf" type="application/pdf" width="600" height="500">
Your browser does not support embedded PDF files.
```

```
</object>
```