# HTML

### What is html?

- Html stands for hyper text markup language was created by Tim Berners-Lee in 1991 as a standard for creating web pages.
- HTML is like the skeleton of a website.
- Html gives structure to web page
- It contains text known as tags
- Tags are understandable by browser.

### What is a html document?

 An HTML document is a text document saved with the '.html' or '.htm' extension, containing text and specific tags enclosed in '< >'.

# What is tag?

- Html instructions known as tags
- An HTML tag acts as a container for content or other HTML tags.
- Tags are words enclosed within < and > angle brackets.

# Type of tags in html

- 1. Open tags or container tags
- It has a range
- E.g.
- 2. Close tags or empty tags
- It does not have a range.
- E.g. <br/>, </hr>

### What is an html element?

- An HTML element is a complete set that consists of a start tag (or opening tag), content, and an end tag (or closing tag).
- HTML Element = Start Tag + Content + End Tag
- E.g.
- <h1>Content</h1>

# What is an attribute in html?

- Attributes defines the properties or characteristics of a html element.
- Attributes modify the behavior, functionality, or appearance of an element by providing additional information.
- They allow you to customize the behavior of HTML elements.
- E.g.
- <a href="https://www.example.com">Go to Example</a>

#### Basic structure of html

# <!doctype html5>

It defines that this document is the html5 document.

#### <html>

- Root element for html document

#### <head>

- It contains meta information about the web page

### <title>

- Element specifies a title for the HTML page (which is shown in the browser's title bar or in the page's tab)

# <body>

- Element defines the document's body, and is a container for all the visible contents, such as headings, paragraphs, images, hyperlinks, tables, lists, etc.

# Heading tags

- Its defines heading
- Displayed in larger and bolder font
- There are 6 level of heading tags
- 1. <h1></h1>
- 2. <h2></h2>
- 3. <h3></h3>
- 4. <h4></h4>
- 5. <h5></h5>
- 6. <h6></h6>



# Text formatting tags

- Paragraph tags
- Used to create paragraph
- Syntax this is paragraph
- Used to insert black line in the document.
- Syntax <br>
- Horizontal ruler
- Used to draw horizontal line across the web page
- Syntax <hr>>

# 4. Physical and logical tags

### A. Physical tag

- It describes the physical appearance of the content.
- Physical tags are used to indicate exactly how specific characters are to be formatted.

- 1. Bold tags
- Defines bold text
- <b></b>
  - 2. Italic tag
- Defines italic text
- <i><i></i></i>
  - 3. Big tag
- Defines big text
- <big></big>
  - 4. Small tag
- Defines small text
- <big></big>
  - Sup tag
- Defines superscripted text
- <sup>hello</sup>



- 6. Sub tag
- Defines subscripted text
- <sub>hello</sub>

# B. Logical tags

- These tags indicate the purpose of text, such as whether it's a heading, code, or an address.
  - 1. Abbreviation tag
- It used to defines abbreviation or short of an element
- <abbr title="world health organization ">WHO</abbr>
  - Address tag
- Used to indicate the contact information about person or organization
- Text inside the address tag will be displayed in italic format.
- <address>shant niwas, pune</address>

- Blockgoute
- Used to specify the text is quoted from another section
- Cite tag –it specify source of quotation (auther)
- <blockgoute>

```
>
```

Google is an American multinational corporation technology company that offers a variety of products and services

http://www.google.com

</cite>

</blockqoute>

- 4. Code tag
- Used specify the text is computer code
- <code></code>
  - Del tag
- Used to specify portion of text deleted from document
- <del>the content is deleted to deleted to deleted to delete deleted to delete deleted to delete deleted to delete delet
  - 6. Ins tag
- Specify text has been inserted into document
- <del>deleted text</del> <ins>inserted text</ins>
  - 7. Def tag
- Used to mark term that is being defined in document
- -

```
<def>java</def> is programming language.
```

- 8. Kbd tag
- Used to define keyword input
- <kbd>this is keyboard input</kbd>
  - 9. Samp tag
- Used to define sample output from computer program
- <samp></samp>

- 10. Strong tag
- Used to define text with strong importance
- <strong>java is high level programming language</strong>
  - 11. Var tag
- Used to define variable in programming or mathematical expression
- Content displayed in italic format
- <var></var>

# Semantic and non-semantic element

#### Semantic element

- Semantic elements clearly describes the purpose of content they contain to both browser and developer
- Article tag
- Used to define article
- <article></article>



- Section tags
- Represents a thematic grouping of content.
- Defines section of documents such as chapter, header or any other content
- <section></section>
- Mark tag
- Used to mark or highlight the content
- <mark></mark>
- 4. Figure tag
- It used to add self-contained content like illustration, diagrams and photos in a document
- Figcaption tag- it used to set caption image
- E.g.

- Details tag
- It used for content or information which initially hidden but could be displayed if user wants to see it
- Summary tag
- Used with details tag to specify visible heading
- <details>

```
<summary>More Info</summary>
  This is the additional information that can be revealed
by clicking the summary.

</details>
```

### Header tag

- Used to define the introductory content of a section or a webpage.
- It typically contains elements like headings, logos, navigation links, and other introductory information relevant to the content that follows.

### Main tag

- The <main> tag is used to encapsulate the main content
- <main></main>
- Footer tag
- used to define the footer section of a document
- it typically contain information about copyright information, contact details, links related documents or social media.
- <footer></footer>

### Non semantic elements

- A non-semantic element don't have any meaning.
- They don't tell anything about content they contain
- Used for only grouping purpose

#### 1. Div

- Its generic container for grouping other HTML elements together.
- It does not provide any specific meaning or structure on its own but is commonly used for layout and styling purposes.

```
<div><div>
```

### 2. Span

- The <span> tag in HTML is an inline, non-semantic element used to group and style a
  portion of text or other inline elements.
- It does not provide any meaning or structure but is useful for applying CSS styles or JavaScript functions to a specific part of content.

```
<span><span>
```

#### List in html

- In html list is way to display item in structured format, either in ordered or unordered way.
- There are main three type of list
  - Unordered list
  - Ordered list
  - 3. Descriptive list



#### 1. Unordered list

- An unordered list displays items in bullets format
- Unordered list enclosed within tag
- Each list item is enclosed within <1i></1i> tag
- Type attribute specify type of bullet
- Disc solid circle
- Square solid square
- Circle hollow circle

# 2. Ordered list

- An ordered list displays the items in numbered format
- Ordered list enclosed within tag
- Each element enclosed within 
   tags
- Type attribute specify type of sequence (bullet)
- Type- 1, A, a, I, i

```
      item 1
      item 2
      item 3
```

# 3. Definition list or descriptive list

- Definition list is not list of items.
- Its list of term and explanation of term

#### 4. Nested list

- The list inside another list is known an nested list