HTML Part-1

INTRODUCTION TO HTML

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Browser

- A web browser is a software application that allows users to access, view, and interact with websites on the internet. It renders HTML, CSS, and JavaScript code to display web pages and execute their functionality. Popular web browsers include Google Chrome, Mozilla Firefox, Safari, Microsoft Edge, and Opera.
- Web developers use web **browsers** to test and debug their websites during development and ensure they work correctly across different browsers.









Web Editor

- A web editor, also known as a code editor or an integrated development environment (IDE), is a software tool used by web developers to write and edit web code. It provides features that make coding easier and more efficient, such as syntax highlighting, auto-completion, code formatting, and debugging capabilities.
- Web editors are specialized for working with various web technologies, including HTML, CSS, JavaScript, and server-side languages like PHP or Python. Popular web editors include Visual Studio Code, Sublime Text, Atom.







What is HTML?

• HTML stands for Hypertext Markup Language. It is the standard markup language used to create the structure and content of web pages on the World Wide Web. HTML uses a set of tags and elements to define the various components of a web page, such as headings, paragraphs, images, links, tables, forms, and more.

HTML the Skeleton

- Here are a few reasons why we use HTML in websites:
 - **✓** Structure
 - ✓ Content Display
 - **✓** Hyperlinks
 - √ Images and Media
 - ✓ Forms and User Input

HTML TAGS

- < Opening Tag >
 - "Content Here"
- </ Closing Tag>

>

Paragraph

- In HTML, tags are used to define elements that structure and format the content of a webpage. Tags are written using angle brackets (< and >) and are placed around the content they affect. Tags are paired, consisting of an opening tag and a closing tag, with the content in between.
- HTML tags are used to define various elements such as headings, paragraphs, links, images, lists, tables, forms, and more. Each element has its own specific purpose and structure defined by its corresponding tags.

Basic Structure Of HTML

```
<html>
<head>
        <title> My Web Page </title>
</head>
<body>
        <!- Content Here -->
</body>
</html>
```

- <html>: This is the root element of an HTML document. It wraps all the content on the page.
- <head>:This element contains metadata and additional information about the web page, such as the title that appears in the browser's title bar.
- <title>: This element sets the title of the web page, which is displayed in the browser's title bar or tab.
- **<body>:** This element contains the visible content of the web page.

Declare <doctype html>

```
<!DOCTYPE html>
<html>
<head>
      <title> My Web Page </title>
</head>
<body>
      <!- Content Here -->
</body>
</html>
```

- The DOCTYPE declaration helps the browser understand how to interpret and render the HTML code correctly.
- In this example, <!DOCTYPE html>
 declares that the document type is
 HTML5. It is a simplified DOCTYPE
 declaration used for HTML5
 documents.

HTML HEADING

```
<body>
   <h1>Heading Level 1</h1>
   <h2>Heading Level 2</h2>
   <h3>Heading Level 3</h3>
   <h4>Heading Level 4</h4>
   <h5>Heading Level 5</h5>
   <h6>Heading Level 6</h6>
</body>
```

- Headings provide a way to indicate the importance and organization of different sections of the content.
- HTML offers six levels of headings, ranging from <h1> to <h6>, with <h1> being the highest level of importance and <h6> being the lowest.
- It's good practice to use headings in a hierarchical manner, starting with <h1> as the main heading and proceeding down to lower levels for subheadings and subsections. This helps in maintaining a wellstructured and accessible web page.

HTML PARAGRAPH TAG

```
Paragraph 1
Paragraph 2
</body>
```

• In HTML, the tag is used to define a paragraph of text. It is commonly used to structure and format blocks of textual content on a webpage.

HTML LINKS

```
<a href="url"> Content Here </a>
<body>
<a href="https://www.example.com">
    Visit Example Website
    </a>
</body>
```

- In HTML, you can create links using the <a> (anchor) tag. Links allow users to navigate to different web pages, sections within the same page, or external resources.
- In this example, the <a> tag is used to create the link. The href attribute specifies the URL or destination where the link should point to. In this case, it's set to "https://www.example.com", but you can replace it with the desired URL.
- "/" is used for go forward and ".." is used for backwards.

HTML IMAGE TAG

- In HTML, you can insert images using the tag. The tag is a self-closing tag, meaning it doesn't require a closing tag. It is used to display images on a webpage.
- The **src** attribute specifies the source or URL of the image file.
- The alt attribute provides alternative text for the image, which is displayed if the image cannot be loaded or for accessibility purposes.

HTML BUTTON

<button> Click Me! </button>

Example:

<button type="button"
onclick="alert('Button Clicked!')">

Click Me!

</button>

- In HTML, you can create buttons using the <button> tag. Buttons allow users to perform actions or trigger events when clicked.
- In this modified example, the type attribute is set to "button" to explicitly define the button type. The onclick attribute specifies a JavaScript function to be executed when the button is clicked. In this case, an alert message will be displayed saying "Button Clicked!".

LIST IN HTML

In HTML, there are three types of lists you can create: unordered lists, ordered lists, and definition lists.

- 1. Unordered List (): An unordered list represents a collection of items without any particular order. Each item is displayed with a bullet point or a similar marker.
- 2. Ordered List (): An ordered list represents a collection of items in a specific order. Each item is displayed with a sequential number or letter.
- **3. Definition List (<dl>):** A definition list represents a list of terms and their corresponding definitions.

LIST EXAMPLE

Un-order List Example

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

Order List Example

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

LIST EXAMPLE

Description List Example

- In HTML, the <dd> tag is used to define the description or definition of a term within a definition list (<dl>).
- It is used in conjunction with the <dt>
 tag, which represents the term or the
 name of the definition.



I HOPE THIS SLIDE WILL HELP YOU TO CLEAR YOUR IDEA