

## 1. Introduction to HTML

HTML (Hypertext Markup Language) is the standard language for creating web pages. It defines the structure of a webpage and consists of a series of elements.

#### **Basic Structure of an HTML Document:**

#### **Explanation:**

- <!DOCTYPE html>: Defines the document type (HTML5).
- <html>: The root element of the HTML page.
- <head>: Contains meta information about the HTML document.
- <title>: Defines the title of the webpage.
- <body>: Contains the visible content of the web page.

# 2. HTML Elements and Tags

HTML elements are the building blocks of HTML. They are written with a start tag, content, and an end tag.

## **Example of an HTML Element:**

# 3. Common HTML Tags

Tag	Description	Example
<h1> to <h6></h6></h1>	Headings (h1 is the largest, h6 is the smallest)	<h1>This is Heading 1</h1>
	Paragraph	This is a paragraph.
<a></a>	Anchor (for links)	<a href="https://www.example.com">Link</a>
<img/>	Image	<pre><img alt="Description" src="image.jpg"/></pre>
<u1></u1>	Unordered List	<ul><li>Item 1</li><li>Item 2</li></ul>
<ol></ol>	Ordered List	<pre><ol><li>Item 1</li><li>Item 2</li></ol></pre>
	Table	Data
<span></span>	Inline section of text	<pre><span style="color: red;">Red text</span></pre>
<form></form>	Form for user input	<form><input name="name" type="text"/></form>

## 5. HTML Images

Images in HTML are defined with the <img> tag.

## **Syntax:**

```
html
Copy code
<img src="image.jpg" alt="Description" width="300" height="200">
```

- src: Specifies the image path.
- width and height: Define the size of the image.

### 6. HTML Links

Links are created using the <a> tag.

### **Syntax:**

```
html
Copy code
<a href="https://www.example.com" target="_blank">Click here</a>
```

- href: The URL the link points to.
- target=" blank": Opens the link in a new tab.

#### 7. HTML Forms

Forms are used to collect user input. A form element contains various input types, such as text, radio buttons, checkboxes, and submit buttons.

### **Example of a Basic Form:**

#### 8. HTML Tables

Tables are used to organize data in rows and columns.

### **Example:**

```
html
Copy code
Name
  Age
 John
  25
 Jane
  30
```

## 9. HTML Lists

There are two types of lists in HTML:

- Ordered List (): Displays items in a numbered list.
- **Unordered List** (): Displays items with bullet points.

## **Example of an Unordered List:**

```
Copy code

     Item 1
     Item 2
     Item 3
```

## **Example of an Ordered List:**

## 10. HTML Comments

Comments are used to explain code and are not displayed in the browser.

### **Syntax:**

```
html
Copy code
<!-- This is a comment -->
```

## **Practice Questions:**

- 1. Write the HTML code to create an ordered list of your three favorite books.
- 2. Create a form that asks for the user's email and password, and includes a submit button.
- 3. Design an HTML table that displays the names and ages of three friends.
- 4. Write the HTML to display an image height=300 & width= 300.