**Introduction to HTML (HyperText Markup Language)**

**What is HTML?**  
HTML (HyperText Markup Language) is the standard language used to create and structure webpages. It defines the structure of web content using elements and tags.

**Key Features of HTML:**

* **Markup Language:** HTML uses tags to structure and format content.
* **Hypertext:** It allows linking different webpages via hyperlinks.
* **Platform Independent:** HTML code can run on any browser.
* **Easy to Learn:** HTML has a simple syntax that beginners can quickly grasp.

**Basic Structure of an HTML Document**  
An HTML document consists of elements enclosed in **angle brackets (<>)**. Here's a simple structure:

<!DOCTYPE html>

<html>

<head>

<title>My First HTML Page</title>

</head>

<body>

<h1>Welcome to My Website</h1>

<p>This is a paragraph in HTML.</p>

</body>

</html>

**Explanation of the Structure:**

* <!DOCTYPE html> → Declares the document as HTML5.
* <html> → The root element of an HTML document.
* <head> → Contains metadata like the title and styles.
* <title> → Sets the title of the webpage (visible in the browser tab).
* <body> → Contains the visible content of the webpage.
* <h1> → A heading tag (from <h1> to <h6>).
* <p> → Defines a paragraph.

**Common HTML Tags**

| **Tag** | **Description** |
| --- | --- |
| <h1> - <h6> | Headings (H1 is the largest, H6 is the smallest) |
| <p> | Paragraph |
| <a href="URL"> | Hyperlink |
| <img src="image.jpg" alt="description"> | Displays an image |
| <ul> / <ol> | Unordered (bulleted) & Ordered (numbered) lists |
| <li> | List item (used inside <ul> and <ol>) |
| <table> | Defines a table |
| <tr> | Table row |
| <td> | Table data (cell) |
| <form> | Creates an input form |
| <input> | Input field for forms (text, checkbox, radio, etc.) |
| <button> | Clickable button |

**HTML Attributes**  
HTML elements can have attributes that provide additional information. Example:

<a href="https://www.example.com" target="\_blank">Visit Example</a>

* href → Specifies the link destination.
* target="\_blank" → Opens the link in a new tab.

**Conclusion**  
HTML is the foundation of web development. It structures the webpage, while CSS is used for styling and JavaScript for interactivity. Learning HTML is the first step toward becoming a web developer.