**HTML Lab 1 and 2**

**Introduction to HTML**

**What is HTML?**HTML (HyperText Markup Language) is the standard language used to create and design webpages. It is the foundation of all web content and defines the structure of web documents.

**Why do we use HTML?**

1. To structure and format web content (e.g., headings, paragraphs, links, images).
2. To enable interaction through forms and multimedia.
3. To ensure compatibility with web browsers and accessibility tools.
4. **HTML Elements and Tags**

**HTML Elements**  
An element consists of a start tag, content, and an end tag (optional for some elements). For example:

**<p>This is a paragraph</p>**

Here, <p> is the start tag, This is a paragraph. is the content, and </p> is the end tag.

**HTML Tags**  
Tags are keywords surrounded by angle brackets (<>) that define elements in HTML.  
For example:

* <h1> defines the main heading.
* <a> defines a hyperlink.

**How to Write HTML Tags**

1. Tags are written using angle brackets: <tagname>.
2. Most tags have an opening (<tagname>) and a closing (</tagname>) pair.
3. Some tags, like <img> and <br>, are self-closing.
4. Attributes can be added to tags to provide extra information, e.g.

**<img src="image.jpg" alt="Image description">**

**Types of HTML Tags**

1. **Structural Tags: Define the structure of a webpage.**
   * <html>: Root element of an HTML document.
   * <head>: Contains metadata, such as <title> and <meta>.
   * <body>: Contains the visible content.
2. **Formatting Tags: Define text appearance.**
   * <b>: Bold text.
   * <i>: Italic text.
   * <u>: Underlined text.
   * <small>: Smaller text.
3. **Link and Multimedia Tags: Add interactivity and media.**
   * <a>: Hyperlinks.
   * <img>: Images.
   * <video>: Videos.
4. **List Tags: Define ordered and unordered lists.**
   * <ul>: Unordered list.
   * <ol>: Ordered list.
   * <li>: List item.