

Name: Soham Kishor Walam.

Branch: CSE(DS) Batch: D2

Roll No: D-102 SAPID: 60009230094.

1) What is HTML?

Ans: Hyper Text Markup Language is the standard language used to create webpages. It structures content using a system of elements & tags, allowing browsers to display, texts, images, link & multimedia in a readable format. It works alongside CSS (for styling) & JS (for interactivity) to create dynamic websites.

2) Usage of HTML:

Ans: HTML is used to design & organize webpages, enabling the display of text, images, videos, forms, tables & other elements. It provides a structured layout using elements, like headings, paragraphs, link & sections. Devs use HTML to create website, web apps & even emails, ensuring accessibility across different devices & browsers.

3) Tags in Experiment:

Ans: i) `<!DOCTYPE html>` - declares document as HTML5 file, helping browser interpret the page correctly.

ii) `<html>` - the root element of an HTML document, wrapping all content on the page. It tells the browser that document is in HTML format.

- iii) `<head>` - Contains metadata, links to stylesheet, scripts & other resources that do not appear on the webpage but influence its behavior & appearance.
- iv) `<meta>` - provides metadata such as character encoding (UTF-8) view port settings for responsiveness, & SEO related details for search engines.
- v) `<title>` - Defines the title of webpages, which appears in the browser tab.
- vi) `<body>` - Defines visible content of webpage, usually including text, images, link, forms & multimedia elements.
- vii) `<header>` - Represents introductory section of a webpage usually containing the website's logo, title, & navigation menu.
- viii) `<h1>`, `<h2>` - Define heading with different levels of importance (`<h1>` being most imp, usually main).
- ix) `<p>` - Represents a paragraph of text, helping structure.
- x) `<hr>` - Inserts a horizontal line to visually separate content section, often used for thematic breaks.

`<section>` - Groups related content into distinct sections, often used for thematic breaks.

`` - Highlights text as imp, displaying it in bold to emphasize key content.

`<a>` - Creates hyperlinks to other pages sections or external websites.

`` - Embeds images into the page using `src` attribute to specify image source

`` - Makes text bold without conveying semantic importance.

`<i>` - Makes text italic

`<u>` - underlined text.

`<s>` - Strikes through text.

`` - Defines order element list

`` - Defines unordered element list

`<table>` create table to organize data in rows & columns.