HYPER TEXT MARKUP LANGUAGE (HTML)

Class 02
Your First HTML Program

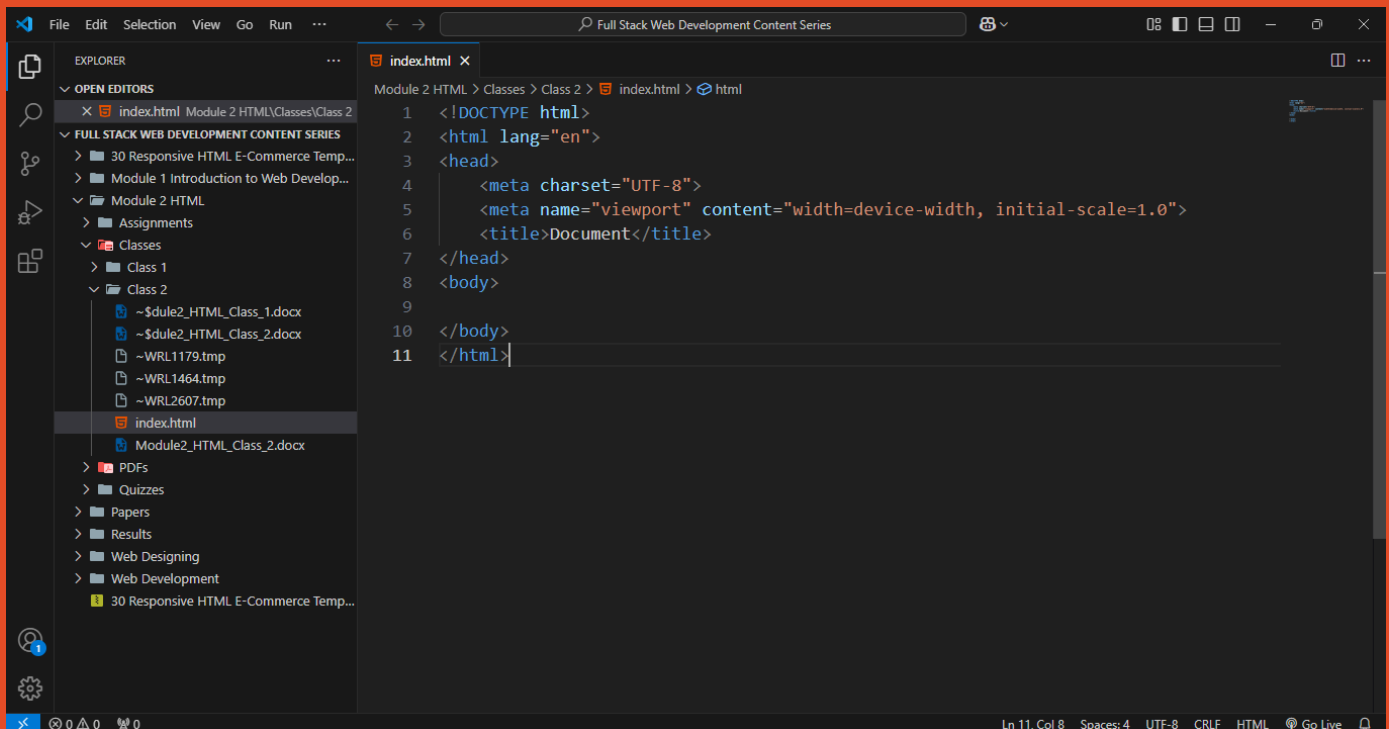### Important Settings before start HTML coding!

First install some main VS Code **Extensions** mentioned below:

- vscode-icons/ Material Icons
- Prettier – Code formatter
- GitHub Themes/ Jellyfish
- Live Server/ Live Server Preview

Enable Auto Save and Zoom option.

Let's Create our First HTML File

We'll create our first HTML file as named **"index.html"**. The name index.html is commonly used for the main file of a website because web servers automatically look for it as the default file to serve when a user accesses a directory. It acts as the entry point for a website.

HYPER TEXT MARKUP LANGUAGE (HTML)

Apache HTTP Server Project?

The **Apache HTTP Server Project** is an open-source software initiative that develops and maintains the Apache HTTP Server, a widely-used web server for hosting websites, delivering content, and supporting modern internet protocols.

Apache HTTP Server link: https://httpd.apache.org/

Emmet – the essential toolkit for web developers?

Emmet is a web development toolkit that boosts productivity by enabling fast HTML and CSS coding with shorthand syntax, auto-completion, and powerful snippet expansions.

Emmet link: https://emmet.io/download/

HTML Code Structure

HTML Page Structure

```
<!DOCTYPE html>        ←————————— Tells version of HTML
<html>           ←————————— HTML Root Element

<head>        ←————————— Used to contain  page HTML metadata
   <title>Page Title</title>   ←————————— Title of HTML page
</head>

<body>        ←————————— Hold content of HTML
   <h2>Heading Content</h2>   ←————————— HTML headling tag
   <p>Paragraph Content</p>   ←————————— HTML paragraph tag
</body>

</html>
```
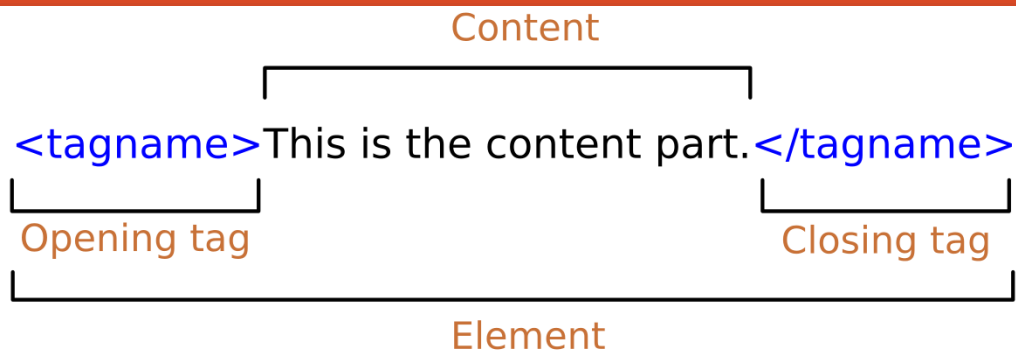
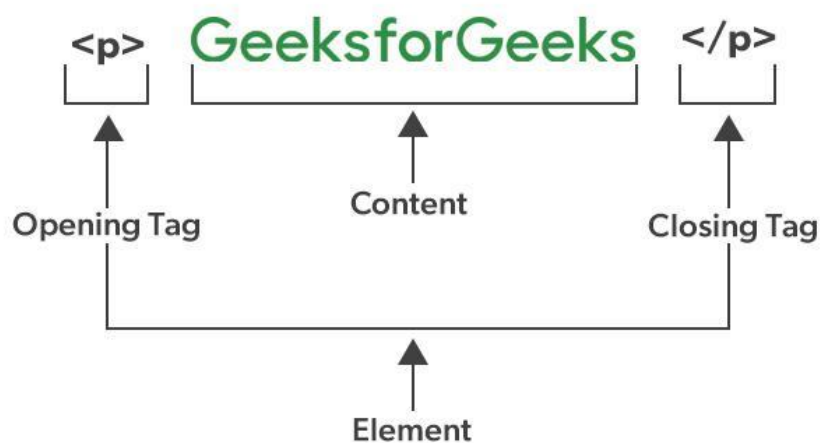# HYPER TEXT MARKUP LANGUAGE (HTML)

HTML Tags and Elements

Html tag

The HTML tag is just an opening or closing entity. For Example: <p> and </p> are called Html tags.

Html Element

An Html Element consists of an opening and closing tag with the content inserted in between.

HYPER TEXT MARKUP LANGUAGE (HTML)

Breakdown the Structure Code of HTML

Here is simple explanation of each code line of structure of HTML

`<!DOCTYPE html>`
Declares the document type as HTML5, letting the browser know the **version of HTML**.

`<html>`
The **root element** of the HTML document; it contains all other elements.

`<head>`
A **container for metadata** (information about the document), such as title, links, and scripts.

`<title>`
Defines the **title** of the web page, shown in the browser tab.

`<meta charset="UTF-8">`
Specifies the **character encoding** for the document, ensuring proper display of text.

`<meta name="viewport" content="width=device-width, initial-scale=1.0">`
Makes the **webpage responsive**, adjusting its layout for different devices.

`<link rel="stylesheet" href="styles.css">`
Links an **external CSS** file for styling the webpage.

`<script src="script.js"></script>`
Links an **external JavaScript** file for interactivity and functionality.

`<body>`
Contains the **content** of the webpage that is visible to the user.

`<h1>`
A **heading element**, typically used for the main title of the page.

`<p>`
Represents a **paragraph** of text.