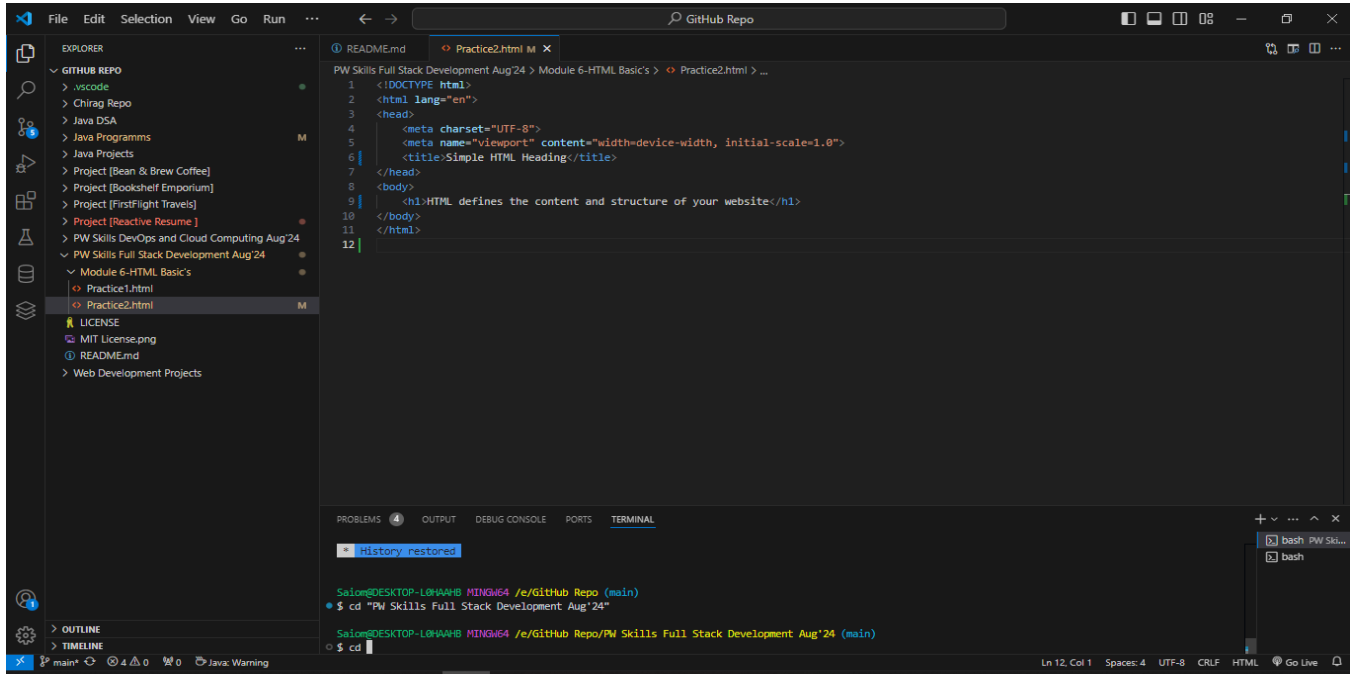


Module -6 Assignment

Q1.) Write a simple program in HTML that displays the heading "HTML defines the content and structure of your website" on the web browser?

Output-



```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Simple HTML Heading</title>
7 </head>
8 <body>
9   <h1>HTML defines the content and structure of your website</h1>
10 </body>
11 </html>
12
```

```
Salom@DESKTOP-L0HAAHB MINGW64 /e/GitHub Repo (main)
$ cd "PW Skills Full Stack Development Aug'24"
Salom@DESKTOP-L0HAAHB MINGW64 /e/GitHub Repo/PW Skills Full Stack Development Aug'24 (main)
$ cd
```

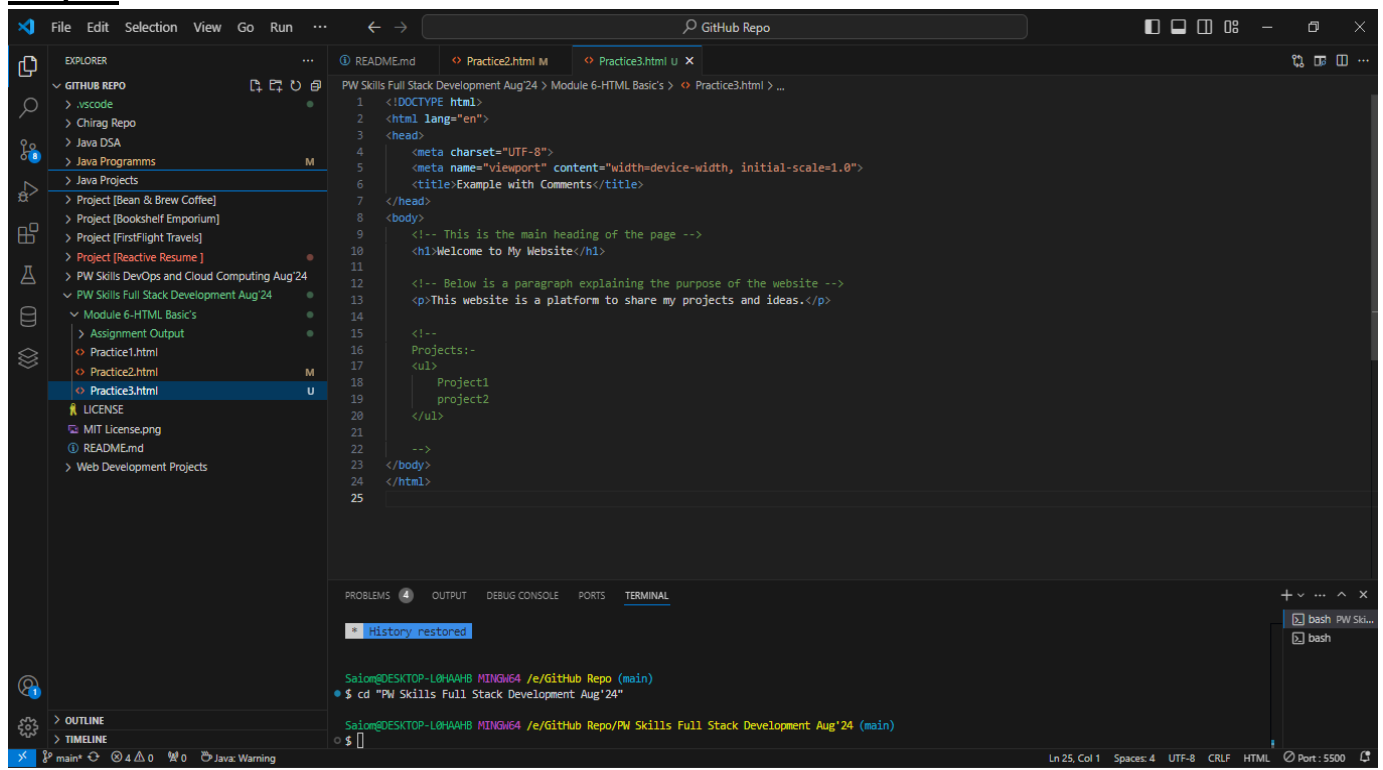
HTML defines the content and structure of your website

Q2.) Explain the purpose of comments in HTML and provide an example of how to use comments in an HTML document?

Comments in HTML are used to leave notes, explanations, or reminders within the code that will not be displayed in the web browser. They are especially useful for:

- **Documenting Code:** Providing descriptions of sections of the code, making it easier for others (or yourself) to understand the structure and purpose of the code.
- **Debugging:** Temporarily disabling code without deleting it, allowing you to test and troubleshoot different parts of your HTML.
- **Organization:** Clearly separating different sections of your HTML file for better readability and maintenance.

Output-



The screenshot shows the Visual Studio Code editor interface. The Explorer panel on the left displays a file tree with the following structure:

- GITHUB_REPO
 - .vscode
 - Chirag Repo
 - Java DSA
 - Java Programms
 - M
 - Java Projects
 - Project [Bean & Brew Coffee]
 - Project [Bookshelf Emporium]
 - Project [FirstFlight Travels]
 - Project [Reactive Resume]
 - PW Skills DevOps and Cloud Computing Aug'24
 - PW Skills Full Stack Development Aug'24
 - Module 6-HTML Basic's
 - Assignment Output
 - Practice1.html
 - Practice2.html
 - Practice3.html (selected)
 - LICENSE
 - MIT License.png
 - README.md
 - Web Development Projects

The main editor area displays the content of `Practice3.html`:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Example with Comments</title>
7 </head>
8 <body>
9   <!-- This is the main heading of the page -->
10  <h1>Welcome to My Website</h1>
11
12  <!-- Below is a paragraph explaining the purpose of the website -->
13  <p>This website is a platform to share my projects and ideas.</p>
14
15  <!--
16  Projects:-
17  <ul>
18    <li>Project1
19    <li>project2
20  </ul>
21  -->
22  <!-->
23 </body>
24 </html>
25
```

The bottom panel shows the TERMINAL view with the following output:

```
History restored
Salim@DESKTOP-L0HAAH8 MINGW64 /e/Github Repo (main)
$ cd "PW Skills Full Stack Development Aug'24"
Salim@DESKTOP-L0HAAH8 MINGW64 /e/Github Repo/PW Skills Full Stack Development Aug'24 (main)
$
```

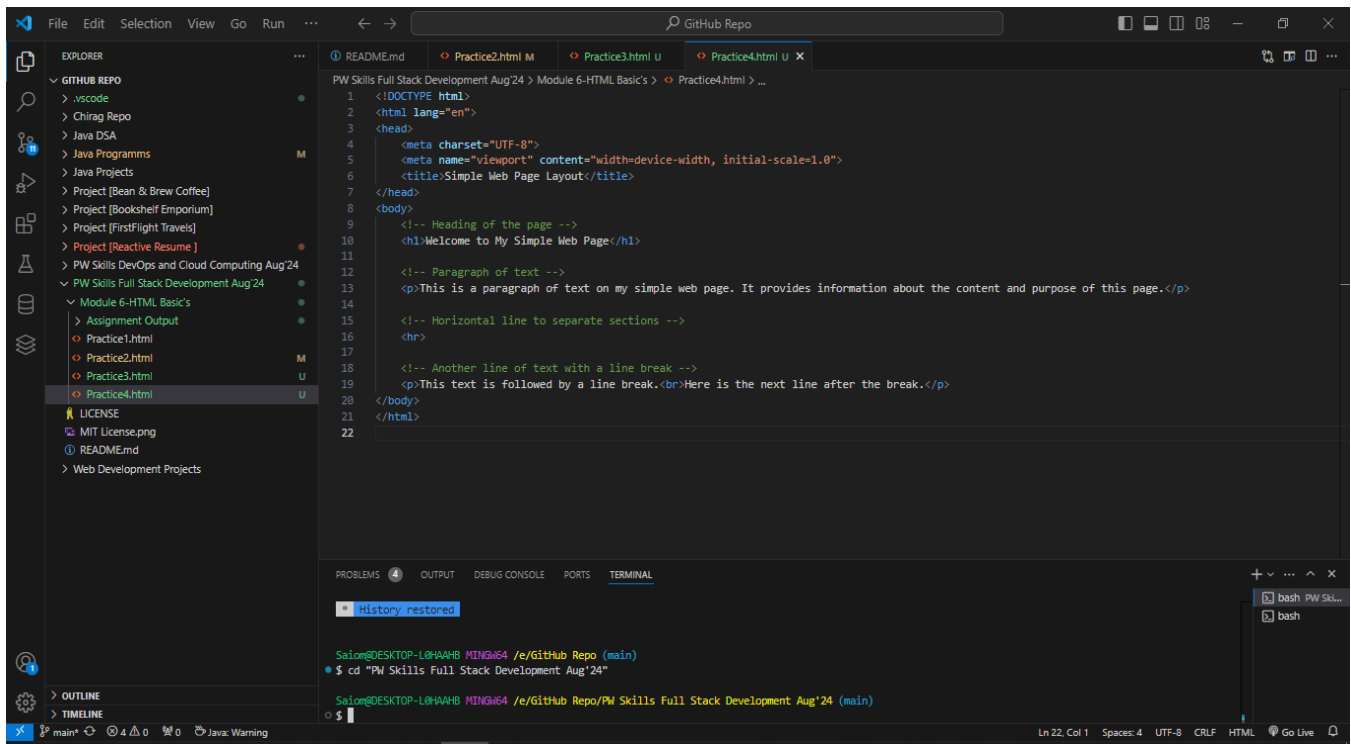
The status bar at the bottom indicates: Ln 25, Col 1, Spaces: 4, UTF-8, CRLF, HTML, Port: 5500.

Welcome to My Website

This website is a platform to share my projects and ideas.

Q3.) Write an HTML program that includes a heading, a paragraph of text, a horizontal line, and a line break. Arrange these elements to create a simple web page layout?

Output-



```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Simple Web Page Layout</title>
7 </head>
8 <body>
9   <!-- Heading of the page -->
10  <h1>Welcome to My Simple Web Page</h1>
11
12  <!-- Paragraph of text -->
13  <p>This is a paragraph of text on my simple web page. It provides information about the content and purpose of this page.</p>
14
15  <!-- Horizontal line to separate sections -->
16  <hr>
17
18  <!-- Another line of text with a line break -->
19  <p>This text is followed by a line break.<br>Here is the next line after the break.</p>
20 </body>
21 </html>
22
```

```
bash PW Ski...
bash

Saion@DESKTOP-L0HWAHB MINGW64 /e/GitHub Repo (main)
$ cd "PW Skills Full Stack Development Aug'24"

Saion@DESKTOP-L0HWAHB MINGW64 /e/GitHub Repo/PW Skills Full Stack Development Aug'24 (main)
$
```

Welcome to My Simple Web Page

This is a paragraph of text on my simple web page. It provides information about the content and purpose of this page.

This text is followed by a line break.
Here is the next line after the break.

Q4.) Write a short note on Tag and element with an example?

Tag

A tag in HTML is a keyword or label enclosed in angle brackets (< >) that defines the start and end of an HTML element. Tags tell the browser how to interpret and display the content on the web page.

Tags usually come in pairs: an opening tag (e.g., <p>) and a closing tag (e.g., </p>). The opening tag begins an element, and the closing tag ends it. Some tags, like or
, are self-closing and don't need an end tag.

Element

An element in HTML is the combination of a tag and the content it contains. It is the complete structure that includes the opening tag, content, and closing tag.

☐ Tag:

- <p> is the opening tag.
- </p> is the closing tag.

☐ Element:

- <p>This is a paragraph.</p> is the complete paragraph element, including the opening tag, the content ("This is a paragraph."), and the closing tag.

Q5.) What is the DOCTYPE Declaration in HTML?

The DOCTYPE declaration in HTML is an instruction to the web browser about what version of HTML the page is written in. It helps the browser to correctly interpret and render the content of the web page.

Code:- `<!DOCTYPE html>`

`<!DOCTYPE html>`: This declaration tells the browser that the document is an HTML5 document. HTML5 is the current standard, and this is the recommended DOCTYPE to use.