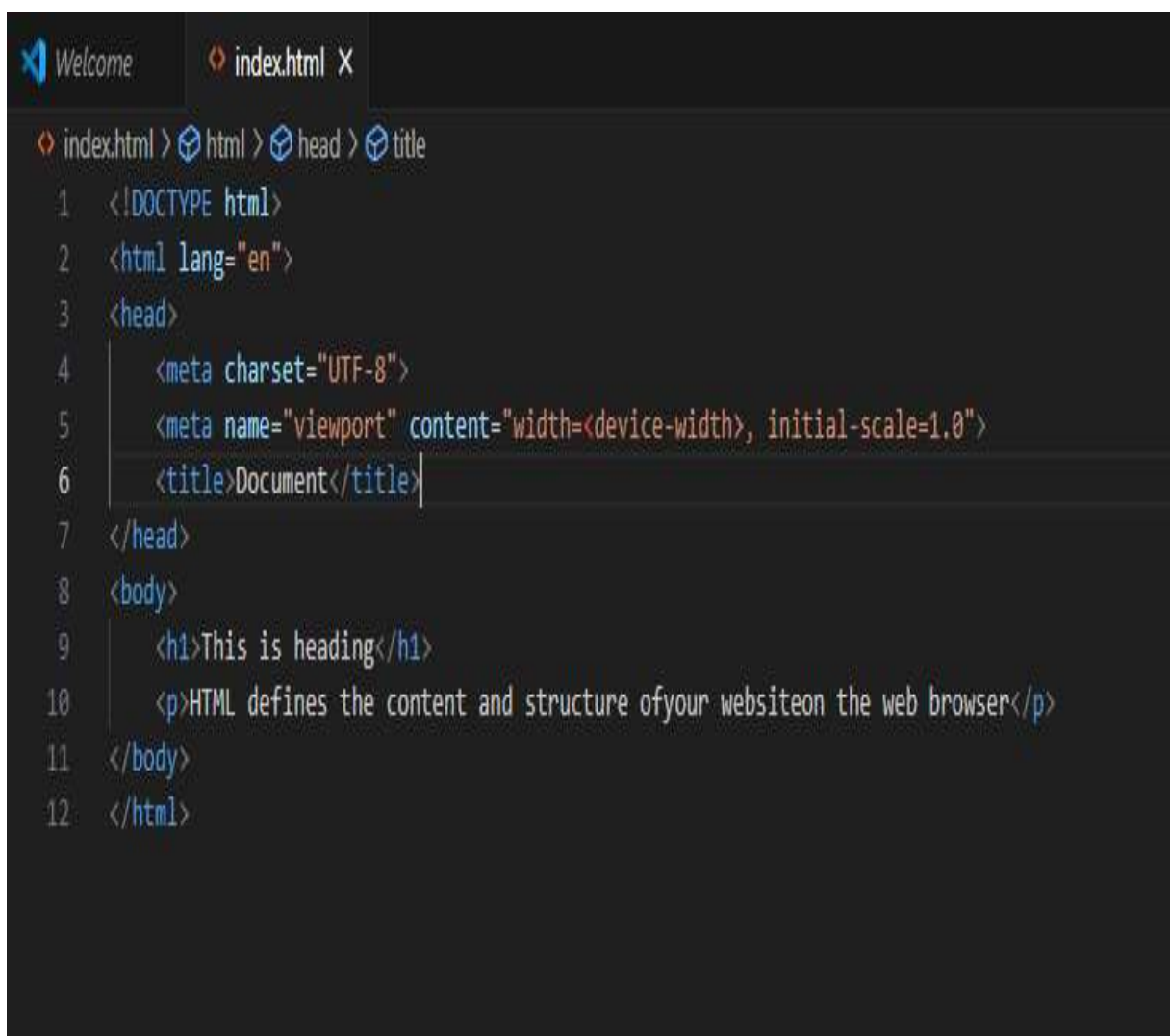


## Assignment

### Getting Started With HTML

1. Write a simple program in HTML that displays the heading “HTML defines the content and structure of your website” on the web browser?

**Answer:**

A screenshot of a code editor with a dark theme. At the top, there are two tabs: 'Welcome' and 'index.html X'. Below the tabs, a breadcrumb navigation shows the file path: 'index.html > html > head > title'. The main area contains 12 lines of HTML code. Line 1: <!DOCTYPE html>. Line 2: <html lang="en">. Line 3: <head>. Line 4: <meta charset="UTF-8">. Line 5: <meta name="viewport" content="width=device-width, initial-scale=1.0">. Line 6: <title>Document</title>. Line 7: </head>. Line 8: <body>. Line 9: <h1>This is heading</h1>. Line 10: <p>HTML defines the content and structure of your website on the web browser</p>. Line 11: </body>. Line 12: </html>. The code is color-coded: tags are blue, attributes and values are green, and text is white. The cursor is at the end of line 6.

```
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>Document</title>
7 </head>
8 <body>
9   <h1>This is heading</h1>
10  <p>HTML defines the content and structure of your website on the web browser</p>
11 </body>
12 </html>
```

## Output:



# **This is heading**

HTML defines the content and structure of your website on the web browser

---

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

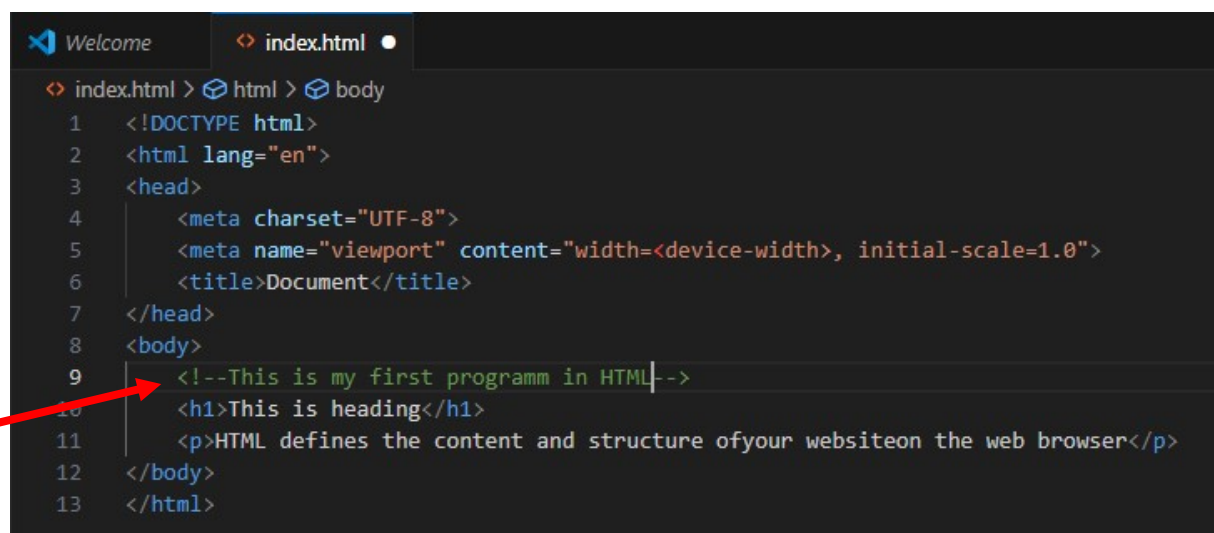
**Answer:**

**Comments:** the purpose of comment in program making the source code easier for humans to understand.

**\*\* Comments are not read by compiler.**

**\*\* Syntax Of Comment In HTML**      `<!--`      `-->`

**Example:**

A screenshot of a code editor window titled 'index.html'. The editor shows the following HTML code:

```
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>Document</title>
7 </head>
8 <body>
9   <!--This is my first programm in HTML-->
10  <h1>This is heading</h1>
11  <p>HTML defines the content and structure of your website on the web browser</p>
12 </body>
13 </html>
```

A red arrow points to the comment on line 9: `<!--This is my first programm in HTML-->`. The breadcrumb at the top indicates the file path: 'index.html > html > body'.

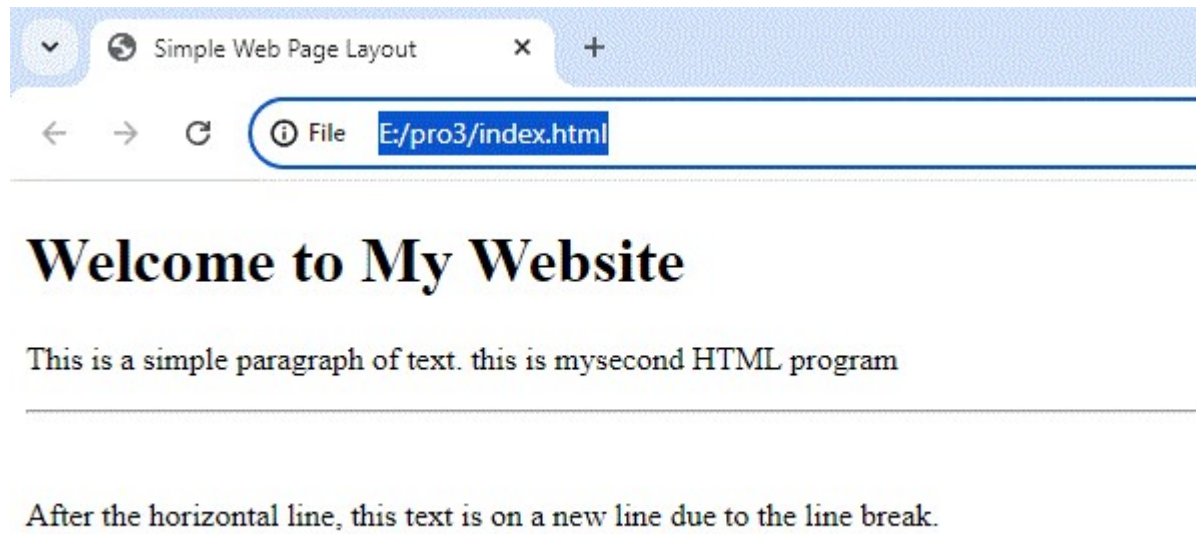
**Documentation , Debugging & Communication**  
major use of comments.

**3. 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?**

**Answer:**

```
index.html X
index.html > html > body > p
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
8  </head>
9  <body>
10     <h1>Welcome to My Website</h1>
11
12     <p>This is a simple paragraph of text. this is mysecond HTML program</p>
13
14     <hr>
15
16     <br>
17
18     <p>After the horizontal line, this text is on a new line due to the line break.</p>
19 </body>
20 </html>
21
```

## Output:



#### 4. Write a short note on Tag and element with an example?

Answer:

Tag:

Tags are the fundamental building blocks of HTML syntax.

- They are defining the structure and semantics of content within a web page.
- Tags are enclosed in angle brackets < >.
- They come in pairs opening and closing tag.

Example :

Opening Tag : <p>

Closing Tag : </p>

<p> This is a second assignment of full stack web development </p>

Elements:

Elements are composed of tags and the content between them.

An element consists of following:



Start Tag: Opening Tag

End Tag: The Closing Tag

Content: Text and other elements contained with the start and end tags.

Example:

```
<p> This is a <strong> bold</strong> paragraph .  
</p>
```

## 5. Write is the DOCTYPE Declaration in HTML?

### Answer:

The DOCTYPE declaration in HTML is a special instruction that specifies the version and type of HTML markup language USED IN WEB DOCUMENT.

Purpose of the DOCTYPE declaration:

1. Document type identification.
2. Standards Mode.
3. Validation

Syntax of DOCTYPE Declaration:

```
1 <!DOCTYPE html>
```

DOCTYPE declaration should be placed at very beginning of an HTML document.