

Q.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:

```
<!DOCTYPE html>
<html>
<head>
  <title>HTML Example</title>
</head>
<body>
  <h1>HTML defines the content and structure of your website</h1>
</body>
</html>
```

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

Answer:

### **Purpose of Comments in HTML:**

Comments in HTML are **used to insert notes or explanations** within the code that are **not displayed in the web browser**. They help developers:

- Explain sections of code for better understanding
- Leave reminders or instructions
- Temporarily disable code during testing
- Collaborate more effectively with others

example of how to use comments in an HTML =

```
<!-- This is a comment -->
```

Q.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:

Here's a simple HTML program that includes:

- A heading
- A paragraph of text
- A line break

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <title>Simple Web Page Layout</title>
```

```
</head>
```

```
<body>
```

```
    <h1>Welcome to My Simple Web Page</h1>
```

```
    <p>This is a paragraph of text that describes the content </p>
```

```
    <p>This is another line of text.<br>
```

```
    This text appears after a line break.</p>
```

```
</body>
```

```
</html>
```

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

**Answer:**

### **Short Note on Tag and Element in HTML**

**Tag:**

A tag in HTML is a keyword enclosed within angle brackets (< >) that defines how the content within it should be displayed in the browser. Tags usually come in pairs: an opening tag (e.g., <p>) and a closing tag (e.g., </p>). Some tags are self-closing, like <br> or <img>.

**Element:**

An element includes the opening tag, the content, and the closing tag. It is the complete structure that represents part of a web page.

**example:**

**Tag:** <p> (opening tag) and </p> (closing tag)

Element: `<p>This is a paragraph.</p>`

Q.5.What is the DOCTYPE Declaration in HTML?

Answer:

What is `<!DOCTYPE>` in HTML?

- It tells the browser which version of HTML you're using.
- It should be the first line in your HTML file.
- Helps the browser show the page correctly.

The `<!DOCTYPE>` declaration in HTML is used to tell the web browser which version of HTML the document is written in. It must be the very first line in the HTML document, before the `<html>` tag