HTML Programming Concepts

1. Write a simple program in HTML that displays the heading:
"HTML defines the content and structure of your website" on the web browser.
HTML Example:
html
<html></html>
<head></head>
<title>Simple HTML Page</title>
 body>
<h1>HTML defines the content and structure of your website</h1>
2. 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 include notes or explanations within the code. They are not
displayed in the browser and help developers understand the structure or purpose of sections of the
code. Comments can also be used to hide code temporarily during testing or debugging.
HTML Comment Example:
This is a comment
This is a paragraph.

```
<!-- End of paragraph section -->
```

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.

4. Write a short note on Tag and Element with an example:

Tags are the building blocks of HTML. They are enclosed in angle brackets (e.g., <tagname>). Most tags come in pairs: an opening tag and a closing tag (e.g., ...), though some tags are self-closing.

An element consists of the opening tag, the content inside, and the closing tag. For example, in the following code:

This is a paragraph.

"" is the opening tag, "This is a paragraph." is the content, and "" is the closing tag. Together, they form a paragraph element.

5. What is the DOCTYPE Declaration in HTML?

The DOCTYPE declaration is a required preamble to any HTML document. It informs the web browser about the version of HTML being used, allowing the browser to render the content correctly. In HTML5, the DOCTYPE declaration is simple and looks like this:

<!DOCTYPE html>

It helps the browser differentiate between different versions of HTML, ensuring that the document is displayed as intended.