

# Getting Started With HTML

## Assignment Solution



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

**Solution:**

```
JavaScript
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <h1>HTML defines the content and structure of your website</h1>
</body>
</html>
```

**Output:**

**HTML defines the content and structure of your website**

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

**Solution:**

Comments in HTML serve as non-rendered text that provides information about the code for human readers. They are useful for documenting your code, explaining its purpose, making notes, or temporarily disabling parts of the code without deleting them. Comments are ignored by browsers and do not affect the rendering of the webpage.

**Example:**

```
JavaScript
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>Comments Example</title>
```

```
</head>
<body>
  <!-- This is a comment explaining the purpose of the following
heading -->
  <h1>Welcome to My Website</h1>

  <!-- Uncomment the line below to temporarily remove the paragraph
-->
  <!-- <p>This paragraph is currently hidden</p>

  <!-- Note: The above line is commented out and will not be displayed
-->

  <!-- TODO: Add more content here later -->
</body>
</html>
```

- The first comment provides an explanation about the purpose of the heading.
- The second comment is used to disable the paragraph temporarily. If you remove the `<!--` and `-->` around the `<p>` tag, the paragraph will be displayed.
- The third comment includes the "TODO" label, indicating that there's a task to be done later, such as adding more content to the webpage.

**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.**

**Solution:**

```
JavaScript
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>Simple Webpage Layout</title>
</head>
<body>
  <!-- Heading tag creates a top-level heading -->
```

```
<h1>Discover the Beauty of Nature</h1>

<!-- Paragraph tag defines a block of text -->
<p>Immerse yourself in the wonders of the natural world. From
breathtaking landscapes to diverse ecosystems, nature has it
all.</p>

<!-- Horizontal rule tag creates a thematic break or
separator -->
<hr>

<!-- Line break tag breaks the line of text within the
paragraph -->
<p>Take a stroll through lush forests, listen to the gentle
rustling of leaves, and experience the tranquility that only
nature can provide.</p>
</body>
</html>
```

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

##### Tag:

An HTML tag is a snippet of code enclosed within angle brackets ("`<`" and "`>`") that defines the purpose and structure of a specific element on a webpage. Tags are used to instruct the web browser how to display the content they enclose. Tags usually come in pairs: an opening tag and a closing tag, with the name of the element enclosed within the tags.

##### Example of a Tag:

```
JavaScript
<p>This is a paragraph tag.</p>
```

In this example, `<p>` is the opening tag, and `</p>` is the closing tag. The content "This is a paragraph tag." is the text within the paragraph element.

##### Element:

An HTML element is a complete unit that includes an opening tag, content, and a closing tag. It represents a distinct part of a webpage's content or structure. Elements are composed of tags and the content enclosed between those tags.

## Example of an Element:

```
JavaScript  
<p>This is a paragraph tag.</p>
```

In this example, `<p>` is the opening tag, "This is a paragraph element." is the content, and `</p>` is the closing tag. Together, they form the complete `<p>` element, representing a paragraph of text.

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

### Answer:

The DOCTYPE declaration in HTML is a special instruction placed at the beginning of an HTML document to specify the version of HTML being used. It ensures proper rendering and parsing by web browsers. The most common declaration, **<!DOCTYPE html>**, indicates the use of HTML5, the latest version of HTML.

