

Assignment 01

Ques:-01 Write a simple program in HTML that displays a heading “HTML defines the content and structure of your website” on the web browser.

```
<!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>
```

Ques:-02 Explain the purpose of comments in HTML and provide an example of how to use comments in an HTML document.

Ans:- Purpose of comments :- Comments are used to explain our code for future purpose and it is useful in the condition where more than one people are working on the same website so the other person can read the comments and identify that what is the meaning of this block of code in this place.

Comments are used by `<!-- -->` this symbol and the text written in this tags is called comment text and browser does not read this sections as a code and comments also not appear to the user of the website or we can say that comments are not appear on the website.

Here is the example of comment :-

```
<!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>
```

```
    <!-- We have written the below line because we want to put another heading on the web page -->
```

```
    <h2>We also know that how to use comments </h2>
```

```
</body>
```

```
</html>
```

Ques:-03 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.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

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

```
</head>
```

```
<body>
```

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

```
  <hr>
```

```
  <p>
```

```
    This is a simple paragraph of text that gives an introduction to the content of the page.
```

```
  <br>
```

```
    Here's a new line within the same paragraph using a line break.
```

```
</p>
```

```
  <hr>
```

```
  <p>Thank you for visiting!</p>
```

```
</body>
```

```
</html>
```

Ques:-04 Write a short note on Tag and element with an example.

Tag:

A **tag** in HTML is a piece of code used to define elements. It is enclosed in angle brackets (<>). Tags tell the browser how to display the content. Most HTML tags come in pairs: an **opening tag** (e.g., <p>) and a **closing tag** (e.g., </p>), though some are **self-closing** (like
 or).

Element:

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

<p>This is a paragraph.</p>

<p> → Opening tag

</p> → Closing tag

This is a paragraph. → Content

<p>This is a paragraph.</p> → This whole thing is an **HTML element**

Ques:-05 What is the DOCTYPE Declaration in HTML?

The **<!DOCTYPE> declaration** in HTML is a special instruction that tells the web browser **which version of HTML** the page is written in. It helps the browser render the page correctly.