HTML Assignment - 2

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

  Ans) The HTML code which generates the mentioned heading is as follows :-

```
<!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>
```

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

Ans) Comments are non executable block of code which help a developer to add notes, instructions and other aspects for reference. In HTML comments are not read by the browser, they are used for documentation.

  Syntax:-

  <! Write your comment here -->

  <! = Opening of the comment.
  --> = Closing of the comment.

The opening and closing of the comments both are mandatory. If the closing of the comment is done then everything after the opening will be commented.

3. C 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?

Ans) The code to generate the web page layout as mention.

```
<!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>Web development</h1>
    <hr>
    <h2>Introduction to Web Development</h2>
    <p>Web development refers to the process of building and maintaining websites.
    It encompasses everything from creating simple static pages to complex dynamic applications.
    <br>Web development typically involves coding languages such as HTML, CSS, and JavaScript for
    front-end development, which is responsible for the design and user interaction.
    <br>On the back-end, server-side programming languages like PHP, Python, Ruby, and Java are
```

used to handle data storage, user authentication, and interactions with databases.</p>
    <hr>
    <h2>Key Aspects of Web Development</h2>
    <p>Web development also includes frameworks and content management systems (CMS) like
React,
    Angular, WordPress, and Django that simplify and speed up the development process.

The goal of web development is to create responsive, functional, and
    user-friendly websites that deliver an
    excellent experience across various devices and screen sizes.

As the digital landscape evolves, web development continues to integrate new
    technologies and techniques, making it an exciting field that constantly
    adapts to meet the needs of users and businesses.</p>
</body>
</html>

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

Ans) Tags are the smallest building blocks of HTML. Using multiple tags we can create a web page. Tags provide instruction on how to display the contents in a webpage.

The tags opens with a less than symbol "<" followed by tag name (eg p, hr) or slash & name (eg /p, /h2) then ends with a greater than symbol ">".

Tags can be broadly classified into 2 types.

   a. Self closing tags - Tags which do not need a closing tag.
        eg: image tag, horizontal line tag etc
   b. Non - Self closing tag - Tags which need self closing tags.
        eg - paragraph tag, heading tags etc

5. What is the DOCTYPE Declaration in HTML?

Ans): We start the file with <!DOCTYPE html>. It tells the browser what type of document to expect eg (HTML)

• The declaration represents the document type, and helps browsers to display web pages correctly
• It must appear only once, at the top of the page(before HTML tag)
• The declaration is not case sensitive. We can write any of the following, it does not give any error.