Q1. **Write a simple program in HTML that display the heading “HTML defines the content and structure of your website” on the web browser?**

Ans:- <!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

# 

# Q2. Explain the purpose of comments in HTML and provide an example of how to use comments in an HTML documents.

# Ans:- The purpose of comments in HTML is to add explanatory or informational notes within the code that are not displayed to website visitors in the web browser.

# Comments allows developers to clarify the purpose and functionality of specific HTML elements of code. This can helpful when working aid in debugging and Troubleshooting.

# Anything within <! -- and -- > is considered a comment and will not be displayed on the web page when it’s viewed in a browser.

# Representation of comments <! -- this is an HTML comment. -- >

# EXAMPLE: -

<!DOCTYPE html>

<html>

<head>

    <title>p Web Page</title>

</head>

<body>

    <h1>Welcome to my website</h1>

    <p>This is the main content of the page.</p>

    <!-- This is a comment explaining the purpose of the following code. -->

    <a href="https://www.example.com">Visit p.com</a>

    <!-- Here's a comment providing some additional information. -->

</body>

</html>

# 

# . The first comment provides an explanation about the purpose of the code.

# The second comment provides about some additional information.

# Q3. 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:- <!DOCTYPE html>

<html>

<head>

    <title>Simple Web Page</title>

</head>

<body>

    <h1>Welcome to My Web Page</h1>

    <p>This is a simple web page with a heading, a paragraph of text, a horizontal line, and a line break.</p>

    <hr>

    <p>This is some more text below the horizontal line.</p>

    <br>

    <p>This text is on a new line after the line break.</p>

</body>

</html>

# 

# hr : - for Horizontal line

# br :- for line break

# Q4. Write a short note on Tag and element with an example.

# Ans:- 1. Tag- Tags are used to define the structure and elements within an HTML.

# . Tags are enclosed in angle brackets < > and come in pairs.

# . Opening tags denote the beginning of an elements.

# . Closing tags denote the end of that elements.

# Example: < p > This is an HTML paragraph elements. <p>

# 2. Elements:-

# . Elements are composed o f opening and closing tags along with the content they enclose.

# . Elements can be nested within other elements to create complex structures.

# . Elements can have attributes that provide additional information or properties.

# Example: < a href = “ https:// [www.example.com](http://www.example.com)” >visit Example.com </a>

# Q5. What is the DCTYPE Declaration in HTML ?

# Ans:- The DOCTYPE declaration is a crucial statement at the beginning of an HTML document that defines the version and type of HYML being used. Its primary purpose id to inform web browsers and validator about the rules and specifications that should be applied when rendering the HTML document.

# The most common declaration <!DOCTYPE html > , indicates the use of HTML5 .