

Q1) Write a simple program in HTML that displays the 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>
  <h2>This is a simple heading of this website</h2>
</body>
</html>
```

Q2) Explain the purpose of comments in HTML and provide an example of how to use comments in an HTML document?

Purpose of comments in html is used to maintain the readability of code by developers, it is also used to mention some important point about the blocks of code
In html comments is given by symbol
<!-- --> it is achieved by pressing CTRL + /

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?

```
<!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>
  <!-- heading starts here -->
  <h2>This is heading of the page</h2>
  <!-- heading ends here -->
  <main>
    <!-- paragraph starts here -->
    <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Eos totam fugiat id animi
    <br> voluptatem sed blanditiis placeat quae, suscipit aut ad sapiente. Fugit porro
    accusamus <br> quaerat illo ex quia nostrum assumenda, nam tempora excepturi
    deserunt sequi iure ut dignissimos quam maiores labore, inventore hic facilis,
    temporibus error reprehenderit velit! Dolorum.</p>
    <!-- paragraph ends here -->
  </main>
</body>
</html>
```

Q4) Write a short note on Tag and element with an example?

Tags:- A tag in HTML is a predefined keyword enclosed in angle brackets (< >) that specifies how content should be formatted or structured. Tags are used to create elements within an HTML document.

Element:- An element in HTML consists of a pair of tags (an opening tag and a closing tag) along with the content enclosed between them. Together, they define a complete unit of content or a structural component within the document.

Example:- <p>here the content along with paragraph opening and closing tag is none is element</p>

Q5) What is the DOCTYPE Declaration in HTML"

Doctype declaration in html tells the browser which version of html is used,
<!DOCTYPE html> this line tells the browser its html 5