

✓ HTML Assignment

1. 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>HTML</title>
</head>
<body>
  <h1>HTML defines the content and structure of your websites</h1>
</body>
</html>
```

Output:



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

- HTML Comments are text in an HTML document that is not displayed by the browser. They allow you to leave notes and explanations directly in the code, which can be especially helpful during the development process or when you need to make future updates.
- To add a comment in your HTML code, you enclose the text you want to hide from display within
- **Syntax:** `<!--content-->`
- **Example:** `<!-- This is a comment and will not be displayed on the webpage --> <p>This is visible text.</p>`

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.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>HTML</title>
</head>
<body>
  <h1>This is my first website using html</h1>
  <hr>
  <h2>Introction about my self</h2>
  <p> Hii Everyone, my name is kundan sahu <br> I am a BCA second year student here at G.D rungta college of Science and Tecnology, Bhi
  <hr>
</body>
</html>
```

Output:

This is my first website using html

Introction about my self

Hii Everyone, my name is kundan sahu

I am a BCA second year student here at G.D runhta college of Science and Tecnology, Bhilai-kohka.

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

- **HTML Tags:** HTML Tags are the starting and ending parts of an HTML element. They begin with < symbol and end with > symbol. Whatever is written inside < and > are called tags.
 - **Example:* *In this example <p> is the starting tag and </p> is the ending tag.
- **HTML elements:** The HTML element consists of both the opening and closing tags as well as what's inside those tags. It normally consists of some structure that's used to define the respective tags.
 - **Example:** In this example <p> is the starting tag and </p> is the ending tag but with content inside it.

5. What is the DOCTYPE Declaration in HTML?

✓ <!DOCTYPE html>

- We start the file with <!DOCTYPE html> . It tells the browser what type of document to expect; in this case it is an HTML document⁴
- The <DOCTYPE> declaration represents the document type, and helps browsers to display web pages correctly⁴
- It must appear only once, at the top of the page(before HTML tag)
- The <DOCTYPE> declaration is not case sensitive. We can write any of the following, it does not give any error.
 - <!DOCTYPE html>
 - <!DocType html>
 - <!Doctype html>
 - <!doctype htm>

html lang="en"

- It's the language attribute and it tells the browser the default language. In this case english -en.
- Here the <html> tag represents the root of an HTML document or we can say it is the container for all other HTML elements(except <!DOCTYPE> tag)

<head>

- This is the head section of the HTML document, which contains meta-information about the document, such as the title of the web page that appears in the browser's title bar or tab.

<title>

- This is the title tag, which sets the title of the web page. In this example, it's set to "Hello, World!"
- The <title> tag is like a label for a webpage. It should only have words, and it appears at the top of your web browser or on the tab of the page.
- we have to use the <title> tag in our webpage!
- The words in the title are really important for getting your webpage found in search engines (like Google). Search engines use the title to figure out where to put your page in the search results

<body>

- This is the body section of the HTML document, which contains the visible content of the web page, such as headings, paragraphs, and more.

<h1>

- This is a heading tag, used to define a top-level heading. In this example, it displays the text "Hello, World!" as a heading.

<p>

- This is a paragraph tag, used to define a paragraph of text. In this example, it displays the text "This is my first HTML page." as a paragraph.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>My web page title</title>
</head>
<body>
  <h1> First Heading</h1>
  <p>this is paragraph</p>
</body>
</html>
```