# Day-8

## Task-1: Building a Simple Web Page with HTML, CSS, and JavaScript

#### 1. HTML (HyperText Markup Language)

HTML forms the structure of a web page. It defines the layout and the content, like headings, paragraphs, images, links, and more.

#### Example Elements:

- o <h1>, : Headings and paragraphs.
- o <div>: General container for content.
- o <a>: Links.
- o <img>: Images.

#### **HTML Example:**

#### 2. CSS (Cascading Style Sheets)

CSS styles the HTML content. It adds color, spacing, and layouts, making the web page visually appealing.

#### Usage:

- o Inline: Inside the style attribute of an HTML element.
- o Internal: Inside a <style> tag in the <head>.
- o External: In a separate .css file.

### **CSS Example** (in an external file styles.css):

Name: Bhavin Vasudev Tewani

**En\_No:** 2303051057084 Page 1

```
body {
    font-family: Arial, sans-serif;
   margin: 20px;
   background-color: #f5f5f5;
}
h1 {
   color: #4CAF50;
}
button {
   background-color: #4CAF50;
   color: white;
   padding: 10px 15px;
   border: none;
   cursor: pointer;
}
button:hover {
   background-color: #45a049;
```

Link the CSS file to the HTML:

```
<link rel="stylesheet" href="styles.css">
```

#### 3. JavaScript (JS)

JavaScript adds interactivity and logic to the web page. It allows you to handle user interactions like clicks and create dynamic content.

**JavaScript Example** (in an external file script.js):

```
// JavaScript to change button text on click
document.getElementById("myButton").addEventListener("click", function() {
   this.textContent = "You clicked me!";
   alert("Button was clicked!");
});
```

Link the JS file to the HTML:

```
<script src="script.js"></script>
```

Name: Bhavin Vasudev Tewani

**En\_No:** 2303051057084