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ROLL NO. 22CS3045

## WEBTECHNOLOGY ASSIGNMENT 4

Q1.

HTML CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>LAB4</title>
</head>
<body>
  <h1>HELLO WORLD</h1>
  <button>Click Me</button>
  <script src="ass.js"></script>
</body>
</html>
```

CSS CODE

```
let btn=document.querySelector("button");
btn.addEventListener("click",()=>{
  let h1=document.querySelector("h1");
  let randomColor=getRandom();
  h1.style.color=randomColor;
});
function getRandom(){
  let red=Math.floor(Math.random()*255);
  let blue=Math.floor(Math.random()*255);
  let green=Math.floor(Math.random()*255);

  let color=`rgb(${red}, ${blue}, ${green})`;
  return color;
}
```

OUTPUT



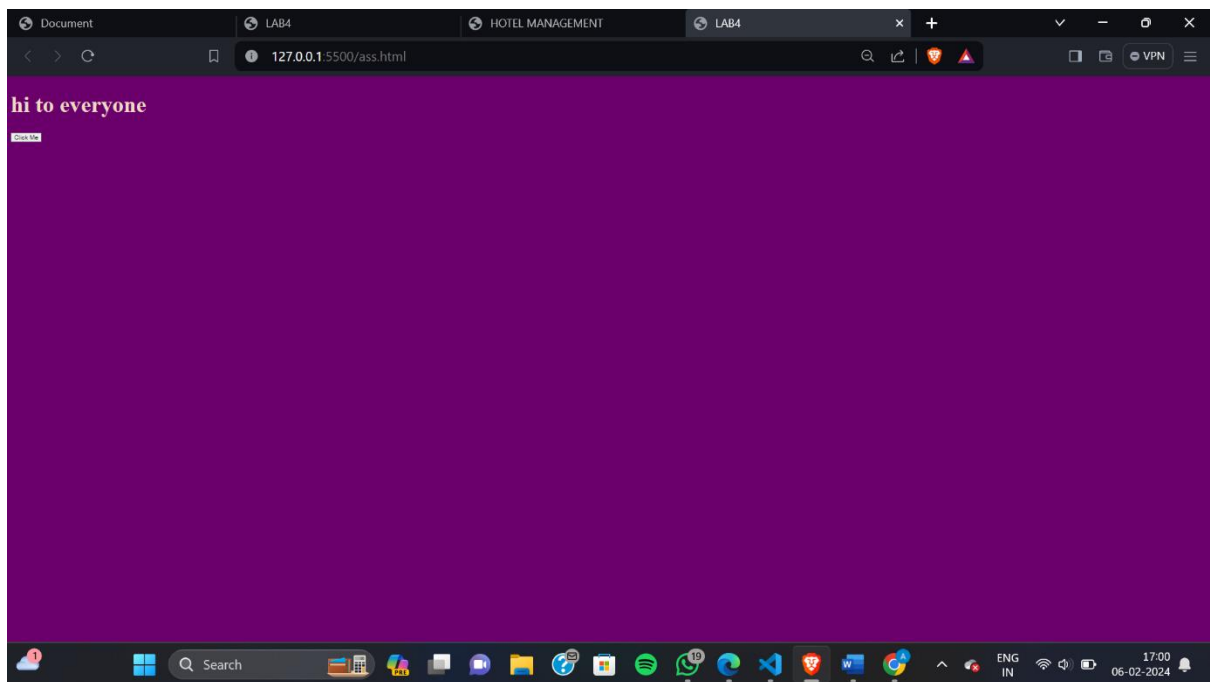
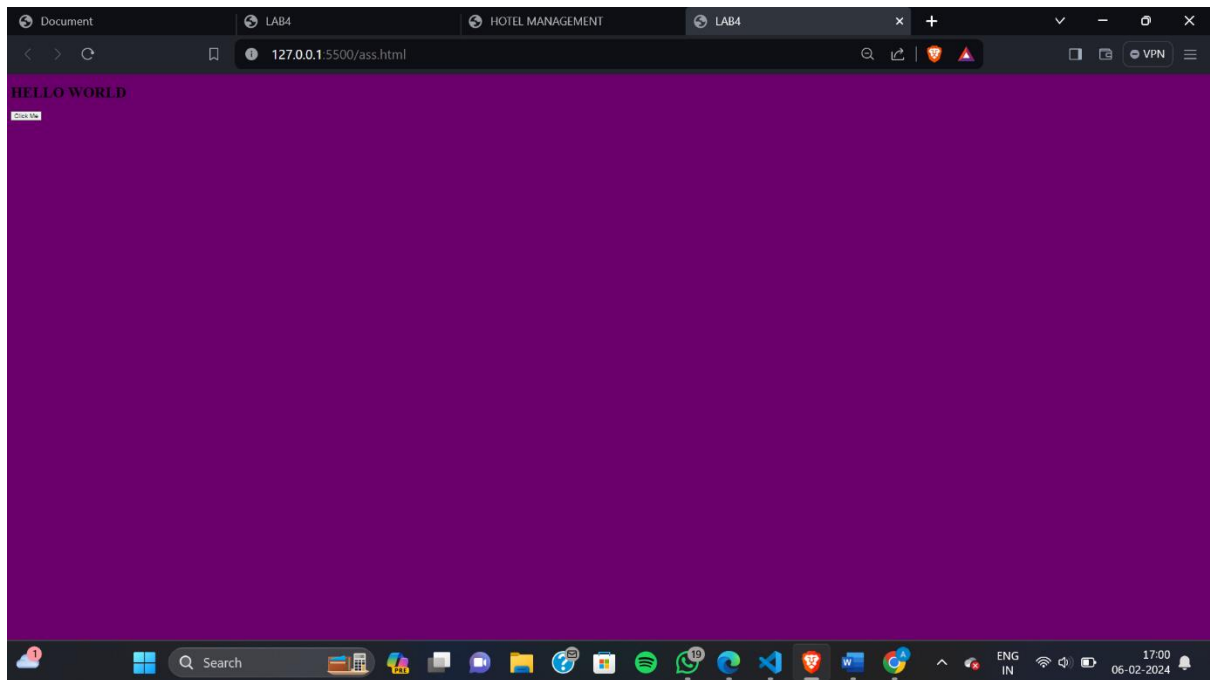
Q2.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>LAB4</title>
</head>
<body class="container">
  <h1>HELLO WORLD</h1>
  <button>Click Me</button>
  <script>
    let btn=document.querySelector("button");
    let bdy=document.querySelector(".container");
    bdy.style.backgroundColor=getRandom();

    btn.addEventListener("click",()=>{
      let h1=document.querySelector("h1");
      h1.style.fontSize="48px";
      let randomColor=getRandom();
      h1.style.color=randomColor;
      h1.innerText="hi to everyone";
    });
    function getRandom(){
      let red=Math.floor(Math.random()*255);
      let blue=Math.floor(Math.random()*255);
      let green=Math.floor(Math.random()*255);
```

```
    let color = `rgb(${red}, ${blue}, ${green})`;
    return color;
  }

</script>
</body>
</html>
```



Q3.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Dynamic Webpage</title>
</head>

<body>
  <h1>Welcome!</h1>
  <button id="changeButton">Click Me!</button>
  <style>
    .blue-bg {
      background-color: #007bff;
    }

    .red-bg {
      background-color: #dc3545;
    }

    body {
      font-family: sans-serif;
      text-align: center;
    }

    #changeButton {
      padding: 10px 20px;
      border: none;
      background-color: #007bff;
      color: #fff;
      cursor: pointer;
    }

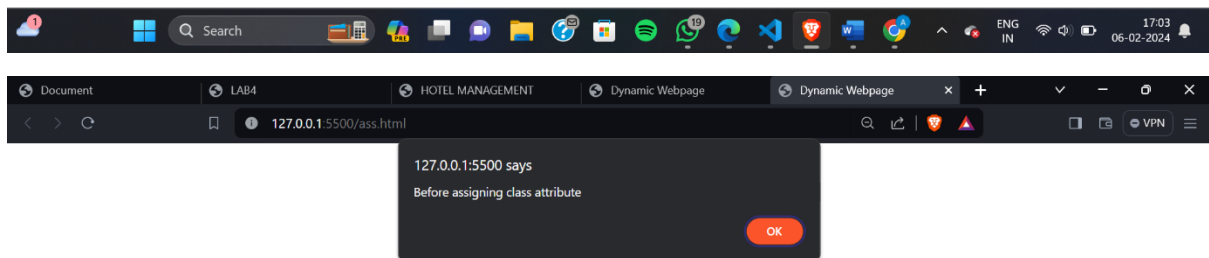
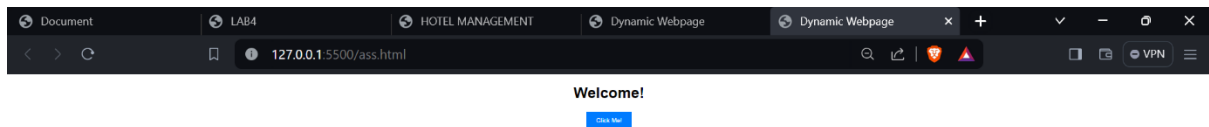
  </style>
  <script>
    const button = document.getElementById("changeButton");
    const body = document.body;

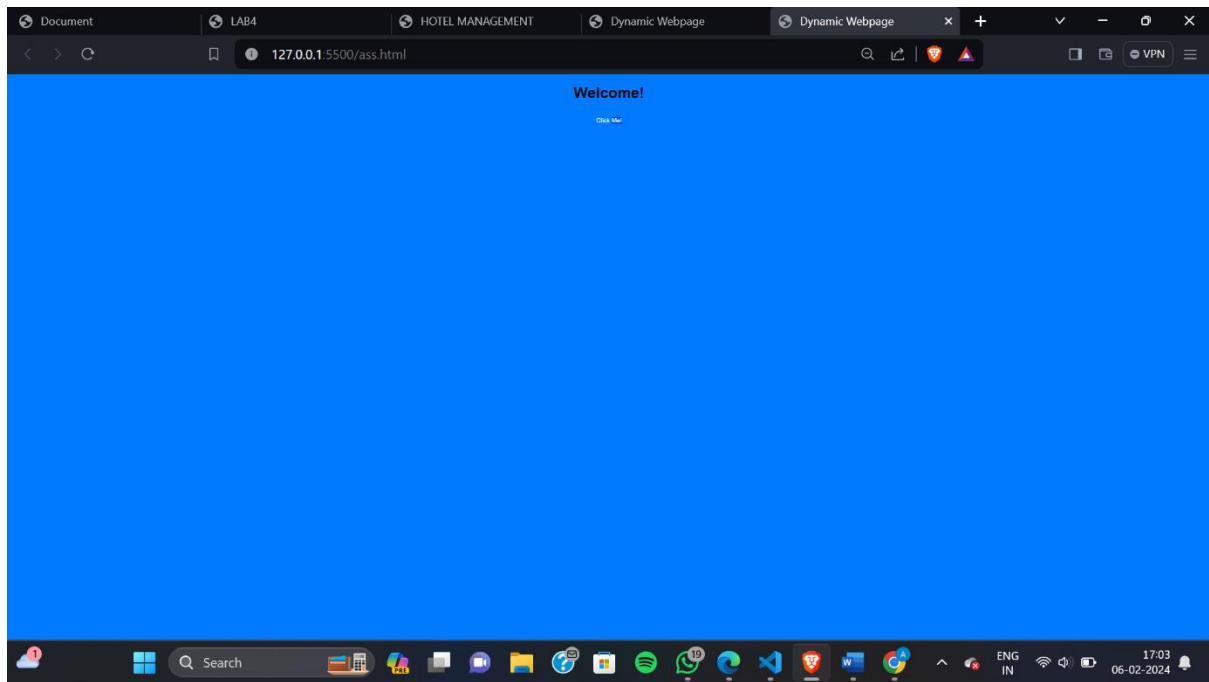
    button.addEventListener("click", () => {
      alert("Before assigning class attribute");

      if (body.classList.contains("blue-bg")) {
        body.classList.remove("blue-bg");
        body.classList.add("red-bg");
      } else {
        body.classList.remove("red-bg");
        body.classList.add("blue-bg");
      }
    })
  </script>
</body>
</html>
```

```
    alert("After assigning class attribute");
});

</script>
</body>
</html>
```





Q4.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Content Replacement</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 0;
    }
    header {
      background-color: #333;
      color: #fff;
      padding: 10px;
      text-align: center;
    }
    main {
      padding: 20px;
    }
    #main-content1 {
      background-color: #f0f0f0;
      padding: 20px;
    }
    #main-content2 {
      background-color: #ccc;
    }
  </style>
</head>
<body>
  <header>
    <h1>Content Replacement</h1>
  </header>
  <main>
    <div id="main-content1">
      <h2>Content Replacement</h2>
    </div>
    <div id="main-content2">
      <h2>Content Replacement</h2>
    </div>
  </main>
</body>
</html>
```

```

        padding: 20px;
        display: none; /* Initially hidden */
    }
    button {
        padding: 10px 20px;
        background-color: #333;
        color: #fff;

        cursor: pointer;
        margin: 0 auto;
    }
</style>
</head>
<body>
    <header>
        <h1>Main Header</h1>
    </header>

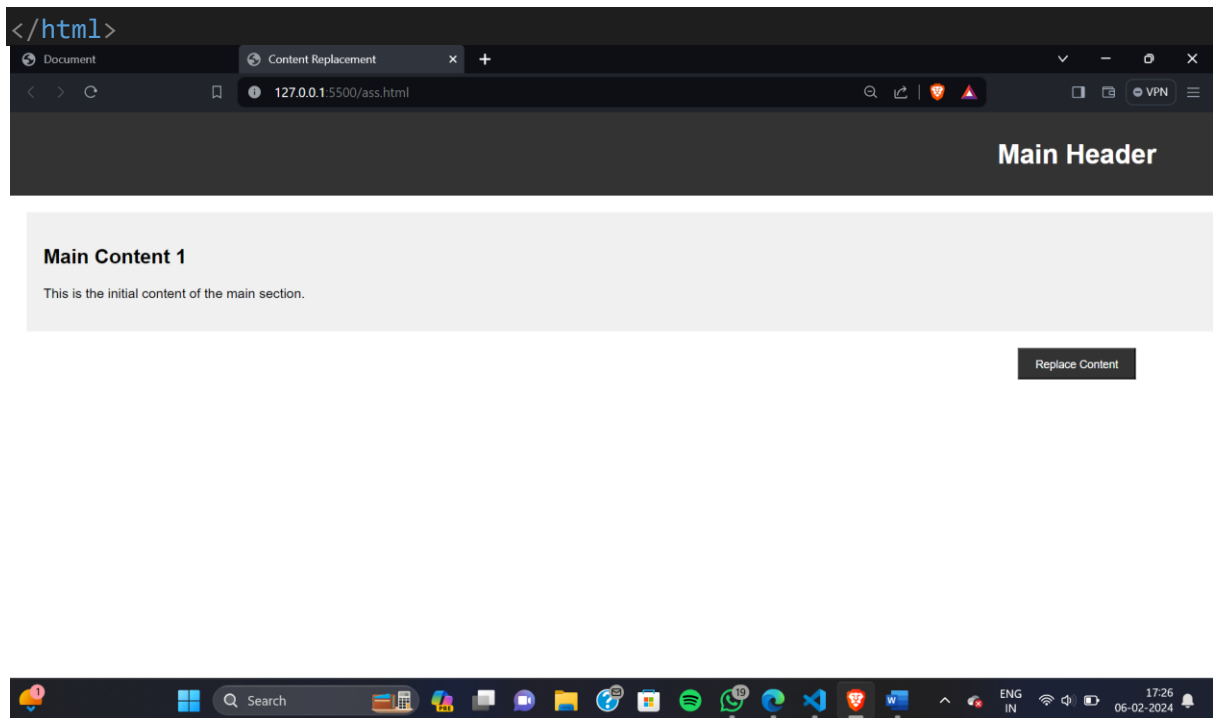
    <main>
        <section id="main-content1">
            <h2>Main Content 1</h2>
            <p>This is the initial content of the main section.</p>
        </section>
        <section id="main-content2">
            <h2>Main Content 2</h2>
            <p>This is the content that will replace the initial content when
the button is clicked.</p>
        </section>
    </main>

    <center><button onclick="toggleContent()"> Replace
Content</button></center>

    <script>
        function toggleContent() {
            var content1 = document.getElementById('main-content1');
            var content2 = document.getElementById('main-content2');

            if (content1.style.display === 'none') {
                content1.style.display = 'block';
                content2.style.display = 'none';
            } else {
                content1.style.display = 'none';
                content2.style.display = 'block';
            }
        }
    </script>
</body>

```



Q5.

```
Task 5:
1.Inline:
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Change h1 Color</title>
</head>
<body>

<h1 style="color: red;">Heading with Inline CSS</h1>

<main>
  <section>
    <h2>Main Content Section</h2>
    <p>This is the content inside the main section.</p>
  </section>
</main>

</body>
</html>

2.Internal
<!DOCTYPE html>
<html lang="en">
```



```
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Change h1 Color</title>
<style>
  h1 {
    color: green;
  }
</style>
</head>
<body>

<h1>Heading with Internal CSS</h1>

<main>
  <section>
    <h2>Main Content Section</h2>
    <p>This is the content inside the main section.</p>
  </section>
</main>

</body>
</html>
```

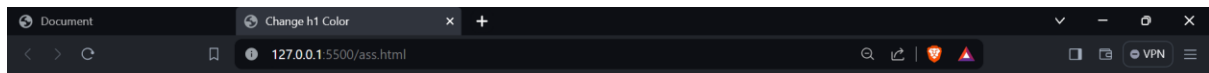
### 3.External

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Change h1 Color</title>
<link rel="stylesheet" href="styles.css">
</head>
<body>

<h1 class="external-style">Heading with External CSS</h1>

<main>
  <section>
    <h2>Main Content Section</h2>
    <p>This is the content inside the main section.</p>
  </section>
</main>
</body>
</html>

.external-style {
  color: blue;
}
```



Task 5: 1.Inline:

## Heading with Inline CSS

### Main Content Section

This is the content inside the main section.

2.Internal

## Heading with Internal CSS

### Main Content Section

This is the content inside the main section.



Q6.

```
task 6:<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Browser Versions</title>
<style>
  body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    text-align: center;
  }
  table {
    width: 100%;
    border-collapse: collapse;
  }
  th, td {
    padding: 10px;
    border: 1px solid #ccc;
  }
  .browser img {
    width: 40px;
    height: 40px;
    display: block;
    margin: 0 auto;
  }
</style>
```

```
</head>
<body>

<table>
  <tr>
    <td>
      <div class="browser">
        


        </div>
      </td>
      <td>
        <div class="browser">
          


          </div>
        </td>
        <td>
          <div class="browser">
            


            </div>
          </td>
          <td>
            <div class="browser">
              


              </div>
            </td>
            <td>
              <div class="browser">
                


                </div>
              </td>
```

```

        </div>
    </td>
</tr>
<tr style="background-color: lightgray;">
    <td><div class="browser" >
        <span>57.0</span>
    </div></td>
    <td><div class="browser">
        <span>16.0</span>
    </div></td>
    <td><div class="browser">
        <span>52.0</span>
    </div></td>
    <td><div class="browser">
        <span>10</span>
    </div></td>
    <td><div class="browser">
        <span>44</span>
    </div></td>
</tr>
</table>

</body>
</html>

```

Document	Browser Versions					
127.0.0.1:5500/ass.html	task 6					
57.0	16.0	52.0	10	44		