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ROLL NO. 22CS3011

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



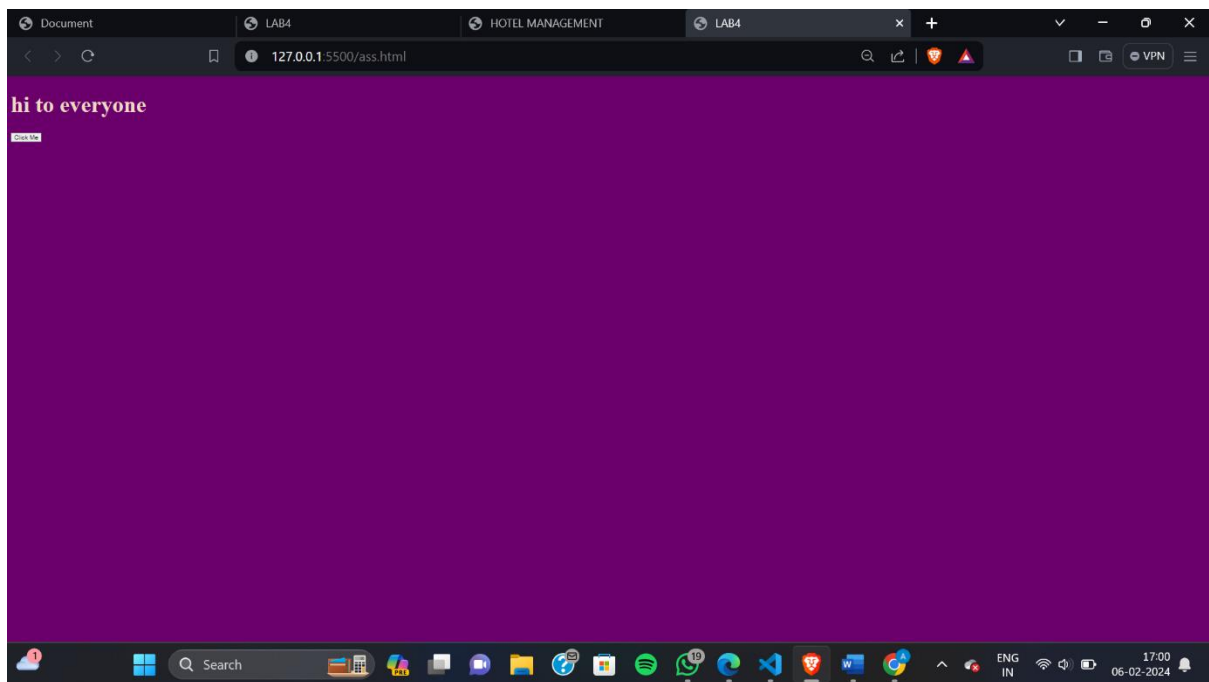
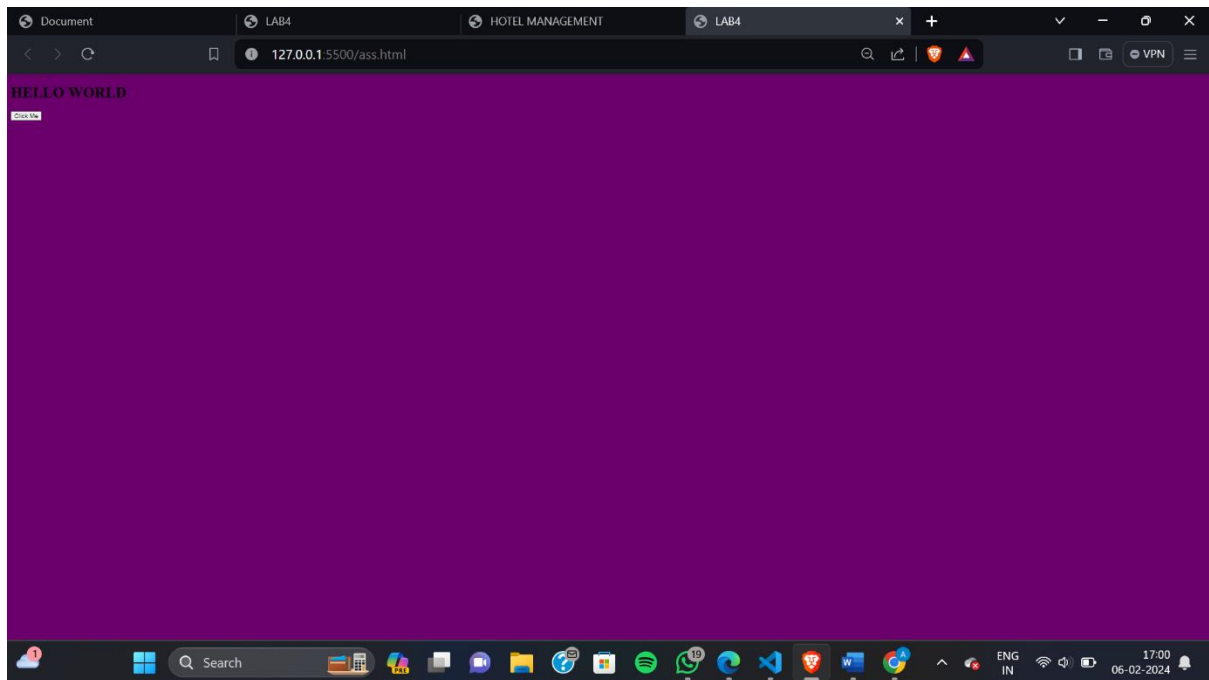
Q2.

```
<!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;
    }

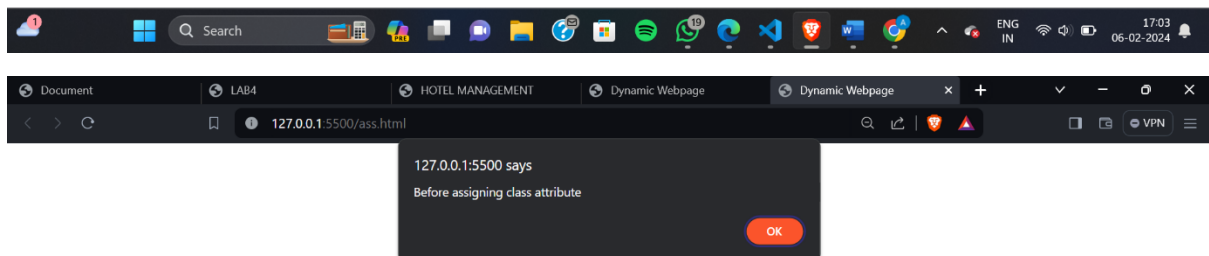
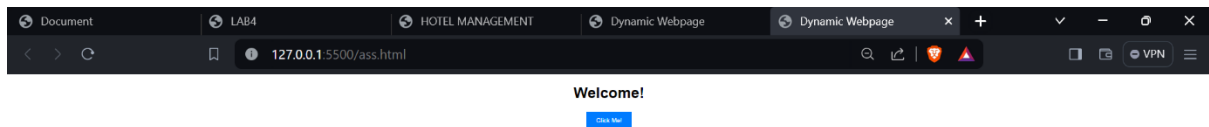
    #changeButton {
      padding: 10px 20px;
      border: none;
      background-color: #007bff;
      color: #fff;
      cursor: pointer;
    }

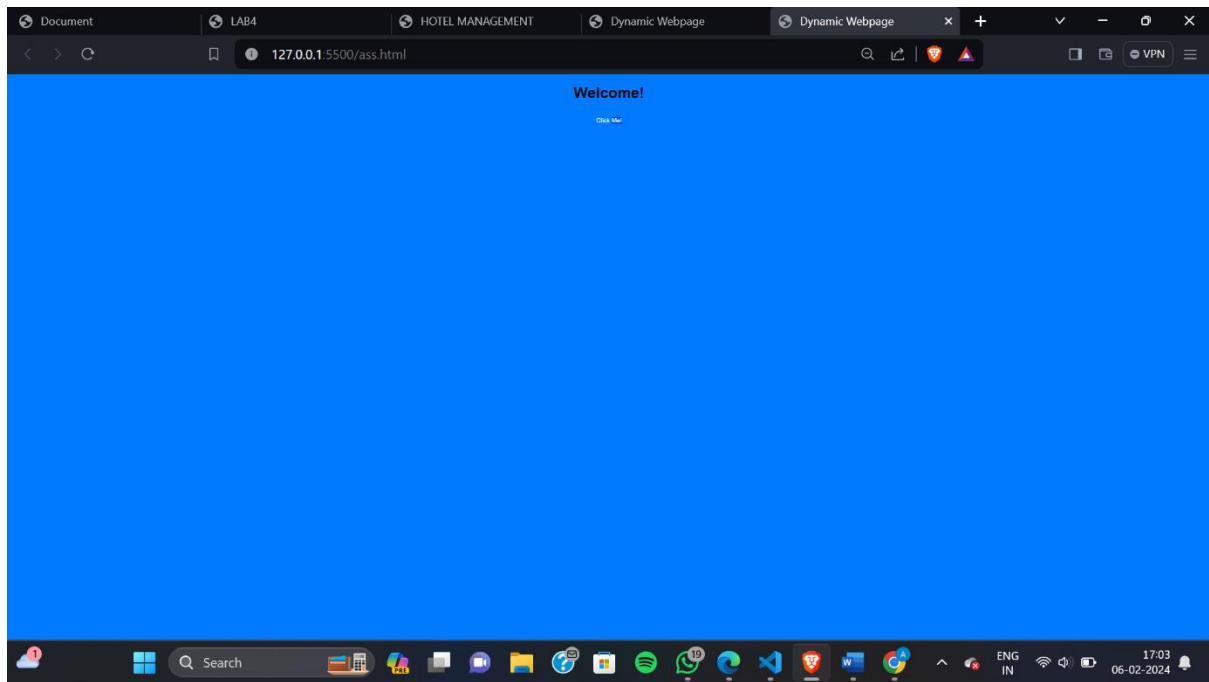
  </style>
  <script>
    const button = document.getElementById("changeButton");
    const body = document.body;

    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>Welcome!</h1>
    <a href="#">Click Here</a>
  </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>

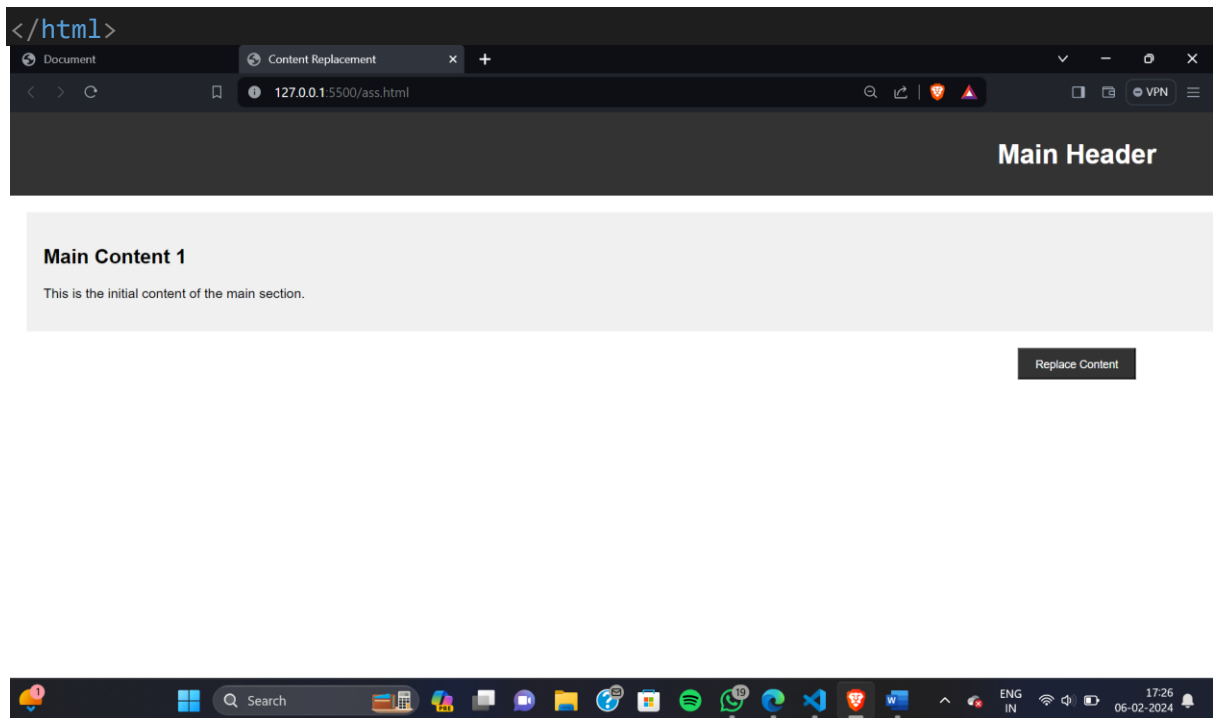
    <main>
        <section id="main-content1">
            <h2>Main Content 1</h2>
            <p>This is the initial content of the main section.</p>
        </section>
        <section id="main-content2">
            <h2>Main Content 2</h2>
            <p>This is the content that will replace the initial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

```

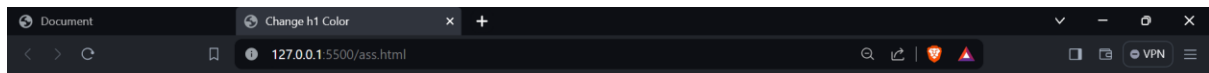
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Change h1 Color</title>
<link rel="stylesheet" href="styles.css">
</head>
<body>

<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>
  </tr>
</table>
```

```

        </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						
57.0	16.0	52.0	10		44	