

LAB-04

ROLL NO. 22CS3007

Q.1

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Change Background Color</title>
  <style>
    body {
      text-align: center;
      padding: 50px;
    }

    h1 {
      color: #333;
    }

    button {
      padding: 10px 20px;
      font-size: 16px;
      cursor: pointer;
    }
  </style>
</head>
<body>

  <h1 id="heading">Click me to change Background color</h1>
  <button onclick="changeColor()">Change Color</button>

  <script>
    function changeColor() {
```

```
      var body = document.body;

      var randomColor = '#' + Math.floor(Math.random()*16777215).toString(16);

      body.style.backgroundColor = randomColor;

      document.getElementById('heading').innerText = 'Background color changed!';
    }
  </script>
</body>
</html>
```

Click me to change Background color

Change Color

.

Background color changed!

Change Color

Q.2

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>lab4</title>
  <style>
    body {
      text-align: center;
      padding: 50px;
      background-color: lightgreen;
    }

    h1 {
      color: red;
      font-size: 48pt;
    }

    button {
      padding: 10px 20px;
      font-size: 16px;
      cursor: pointer;
    }
  </style>
</head>
<body>

  <h1 id="heading">Click me to change the background color</h1>
  <button onclick="changeColor()">Change Color</button>
</body>
```

```
<script>
  function changeColor() {
    var body = document.body;
    body.style.backgroundColor = 'lightgreen';
    document.getElementById('heading').style.color = 'red';
    document.getElementById('heading').style.fontSize = '48pt';
    document.getElementById('heading').innerText = 'Background color changed!';
    var newButton = document.createElement('button');
    newButton.innerText = 'Click Me';
    newButton.onclick = function() {
      alert('Button Clicked!');
    };
    document.body.appendChild(newButton);
  }
</script>
```

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

Click me to change the background color

Change Color

Background color changed!

Change Color

Click Me

Q.3

```

<!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");
      }

      alert("After assigning class attribute");
    });
  </script>
</body>
</html>

```

```

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

```

Welcome!

Click Me!

127.0.0.1:5500 says

Before assigning class attribute

OK

127.0.0.1:5500 says

After assigning class attribute

OK

Welcome!

Click Me!

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;
      padding: 20px;
      display: none; /* Initially hidden */
    }
  </style>

```

```

    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>
</html>
```

Main Header

Main Content 1

This is the initial content of the main section.

Replace Content

Main Header

Main Content 2

This is the content that will replace the initial content when the button is clicked.

Replace Content

Q.5

```

<!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;
}
```

Heading with Inline CSS

Main Content Section

This is the content inside the main section.

Heading with Internal CSS

Main Content Section

This is the content inside the main section.

Q.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>
<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>

```

				
57.0	16.0	52.0	10	44