

Name : Sudhanshu Singh Roll No: 22cs3060

LAB Assignment - 4

Question 1

Code :

```
<!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 {
    font-family: Arial, sans-serif;
    text-align: center;
    padding-top: 50px;
  }
  h1 {
    color: #333;
  }
  .container {
    margin-top: 20px;
  }
  .btn {
    padding: 10px 20px;
    background-color: #007bff;
    color: #fff;
    border: none;
    border-radius: 5px;
    cursor: pointer;
    transition: background-color 0.3s;
  }
  .btn:hover {
    background-color: #0056b3;
  }
</style>
</head>
<body>

<h1>Change Background Color</h1>
```

```
<div class="container">
  <button id="colorBtn" class="btn">Change Color</button>
</div>

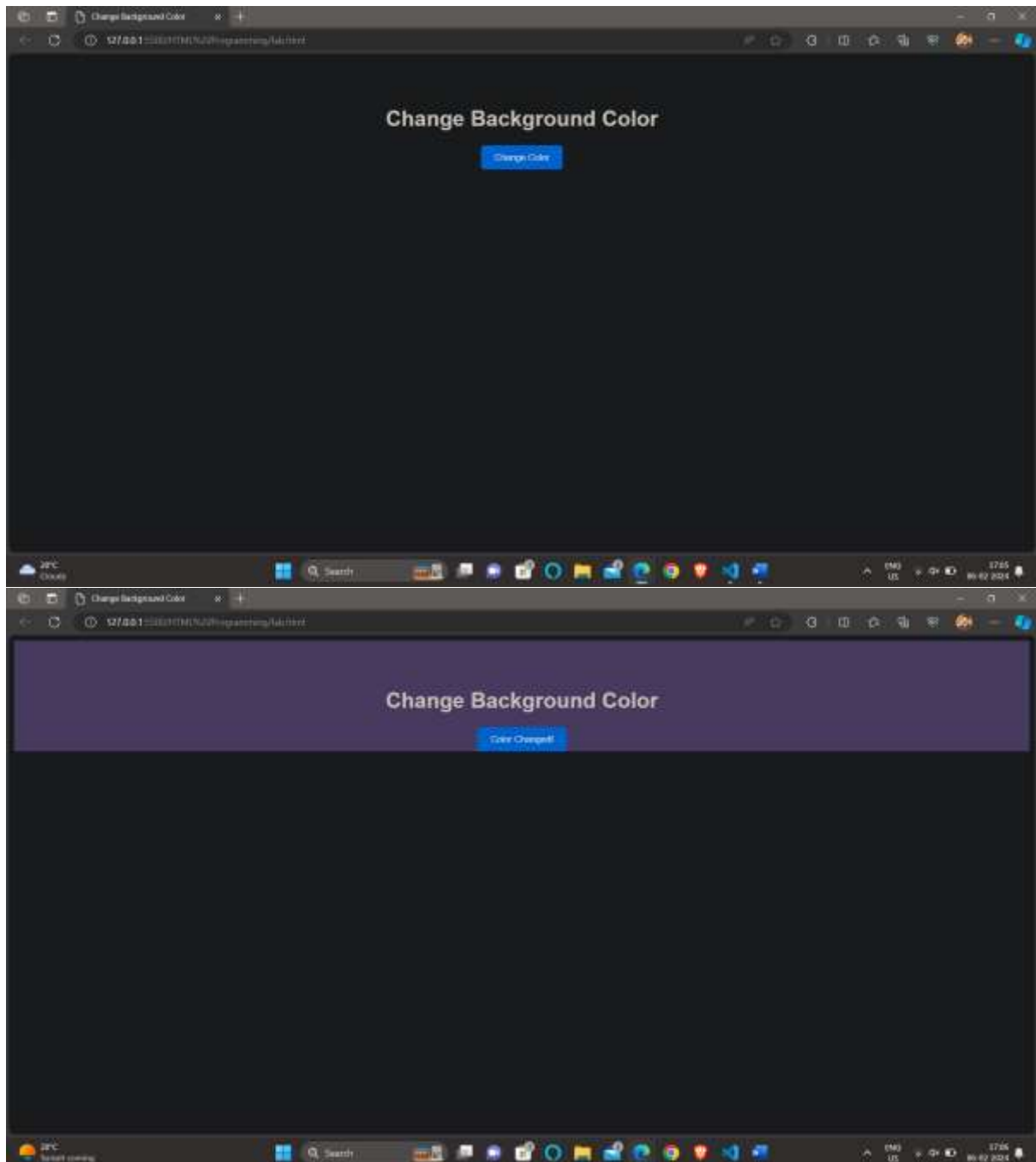
<script>
  const colorBtn = document.getElementById('colorBtn');
  const body = document.body;

  colorBtn.addEventListener('click', function() {
    const randomColor = getRandomColor();
    body.style.backgroundColor = randomColor;
    colorBtn.textContent = 'Color Changed!';
  });

  function getRandomColor() {
    const letters = '0123456789ABCDEF';
    let color = '#';
    for (let i = 0; i < 6; i++) {
      color += letters[Math.floor(Math.random() * 16)];
    }
    return color;
  }
</script>

</body>
</html>
```

Output :



Question 2

Code :

```
<!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 {
```

```

        font-family: Arial, sans-serif;
        text-align: center;
        padding-top: 50px;
        background-color: lightgreen; /* Change background color to light
green */
        color: red; /* Make the text red */
        font-size: 48pt; /* Change fontSize to 48pt */
    }
    .container {
        margin-top: 20px;
    }
    .btn {
        padding: 10px 20px;
        background-color: #007bff;
        color: #fff;
        border: none;
        border-radius: 5px;
        cursor: pointer;
        transition: background-color 0.3s;
    }
    .btn:hover {
        background-color: #0056b3;
    }
</style>
</head>
<body>

<h1 id="heading">Change Background Color</h1>
<button id="colorBtn" class="btn">Change Color</button> <!-- Added button
after closing </h1> -->

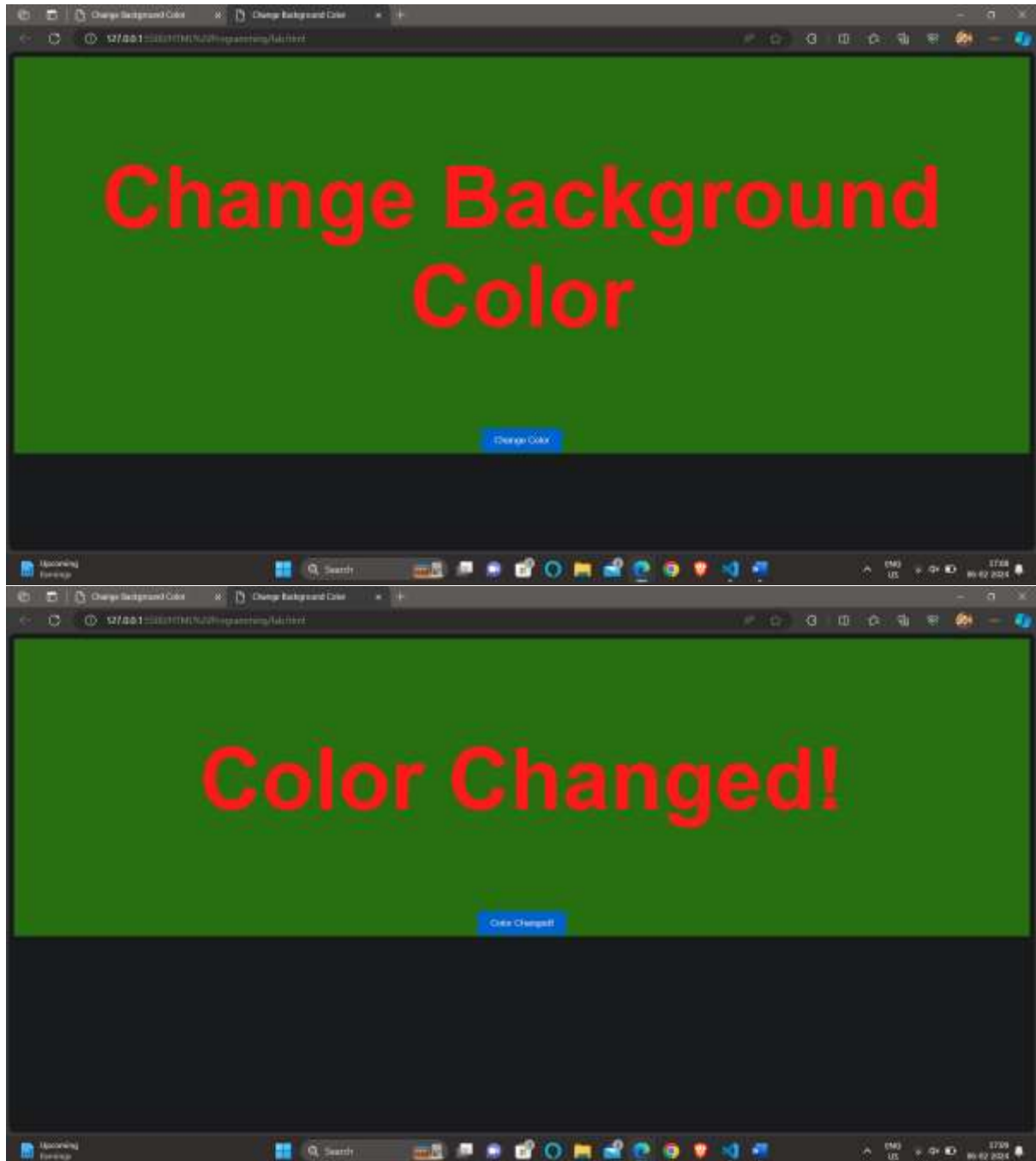
<script>
    const colorBtn = document.getElementById('colorBtn');
    const body = document.body;
    const heading = document.getElementById('heading'); // Get the heading
element

    colorBtn.addEventListener('click', function() {
        body.style.backgroundColor = 'lightgreen'; // a. Make the background
light green.
        body.style.color = 'red'; // b. Make the text red.
        body.style.fontSize = '48pt'; // c. Change fontSize to 48pt.
        heading.textContent = 'Color Changed!'; // d. Change the wording
inside the <h1> tag
        colorBtn.textContent = 'Color Changed!'; // Update button text
    });
</script>

```

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

Output :



Question 3

Code :

```
<!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 {
        font-family: Arial, sans-serif;
        text-align: center;
        padding-top: 50px;
        color: red; /* Make the text red */
        font-size: 24pt; /* Change fontSize to 24pt */
    }
    .container {
        margin-top: 20px;
    }
    .btn {
        padding: 10px 20px;
        background-color: #007bff;
        color: #fff;
        border: none;
        border-radius: 5px;
        cursor: pointer;
        transition: background-color 0.3s;
    }
    .btn:hover {
        background-color: #0056b3;
    }
    .light-green-bg {
        background-color: lightgreen; /* Set background color directly with
class attribute */
    }
</style>
</head>
<body>

<h1 id="heading">Change Background Color</h1>
<button id="colorBtn" class="btn">Change Color</button> <!-- Added button
after closing </h1> -->

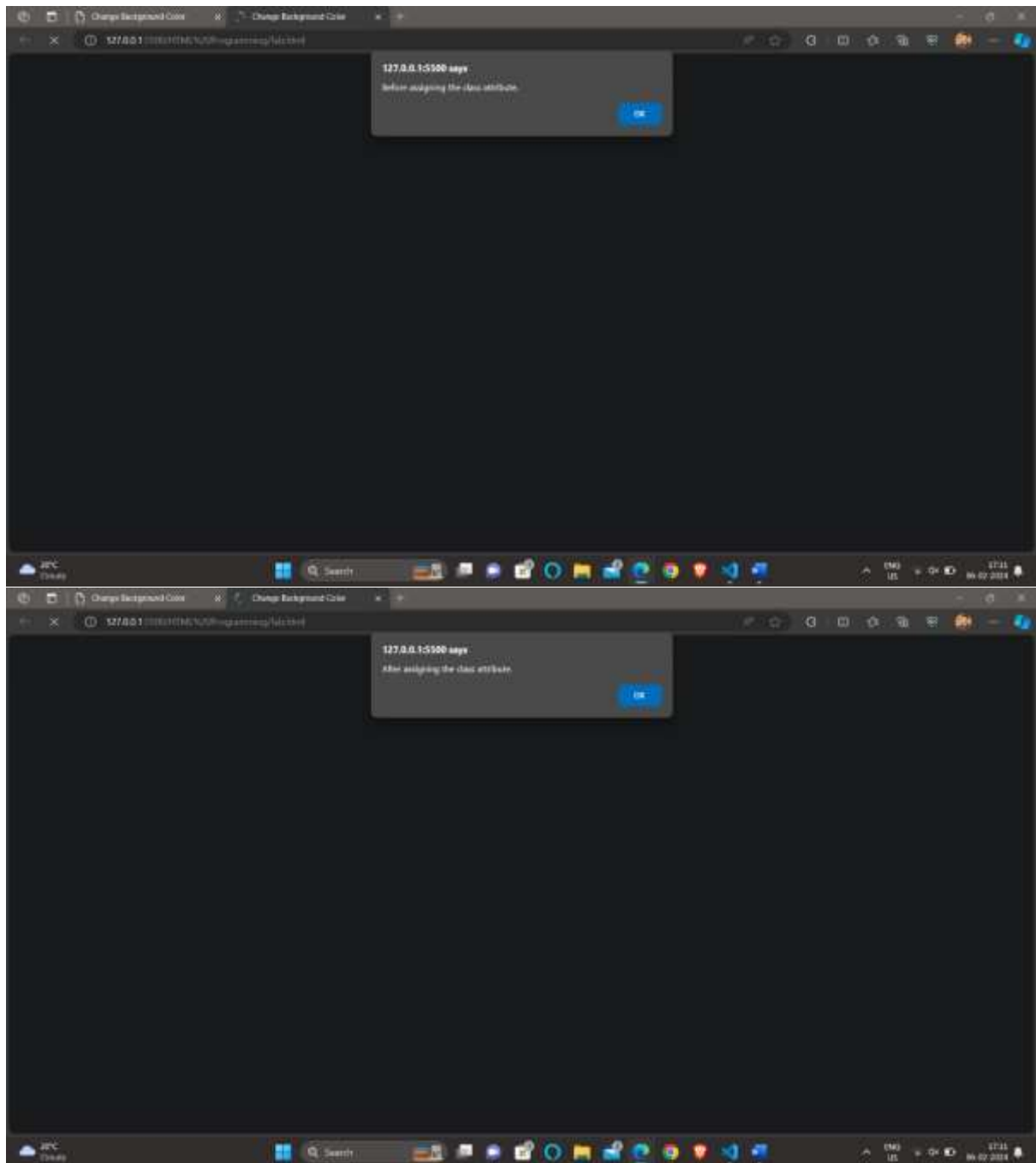
<script>
    alert("Before assigning the class attribute."); // Generate alert before
assigning class attribute

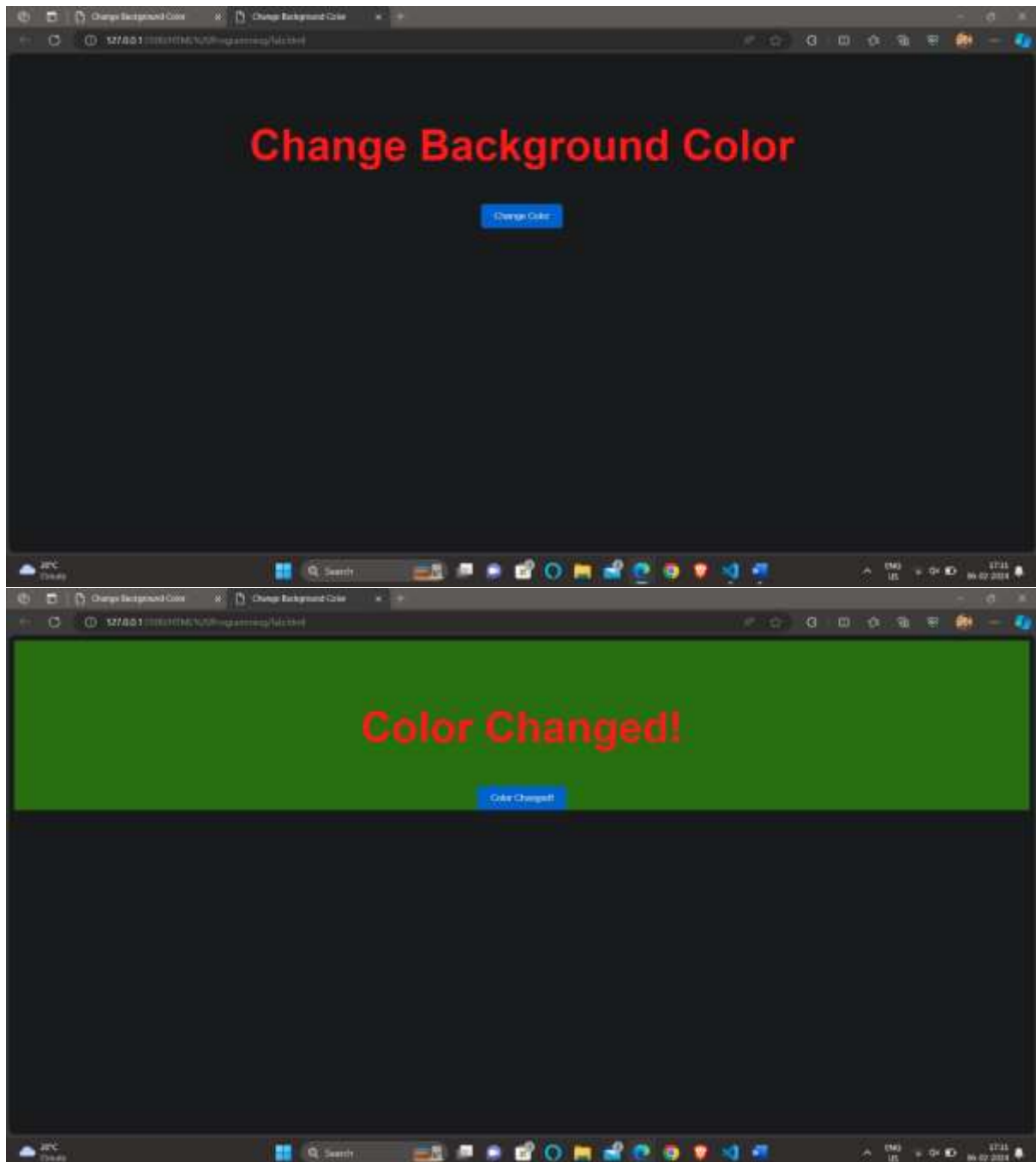
    const colorBtn = document.getElementById('colorBtn');
    const body = document.body;
    const heading = document.getElementById('heading'); // Get the heading
element

```

```
colorBtn.addEventListener('click', function() {  
    body.classList.add('light-green-bg'); // Set background color with  
class attribute  
    heading.textContent = 'Color Changed!'; // Change the wording inside  
the <h1> tag  
    colorBtn.textContent = 'Color Changed!'; // Update button text  
});  
  
    alert("After assigning the class attribute."); // Generate alert after  
assigning class attribute  
</script>  
  
</body>  
</html>
```

Output :





Question 4

Code :

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

```

        font-family: Arial, sans-serif;
        text-align: center;
        padding-top: 50px;
    }
    main {
        background-color: #f0f0f0;
        padding: 20px;
        border-radius: 10px;
        margin-bottom: 20px;
    }
    .container {
        display: flex;
        justify-content: center;
        align-items: center;
        margin-top: 20px;
    }
    .btn {
        padding: 10px 20px;
        background-color: #007bff;
        color: #fff;
        border: none;
        border-radius: 5px;
        cursor: pointer;
        transition: background-color 0.3s;
    }
    .btn:hover {
        background-color: #0056b3;
    }
    .new-content {
        font-size: 20px;
        color: #ff5733;
        font-weight: bold;
        text-transform: uppercase;
        margin-top: 20px;
    }
}
</style>
</head>
<body>

<main>
    <h1>Main Content</h1>
    <p>This is the original content of the main section.</p>
</main>

<div class="container">
    <button id="changeContentBtn" class="btn">Change Content</button>
</div>

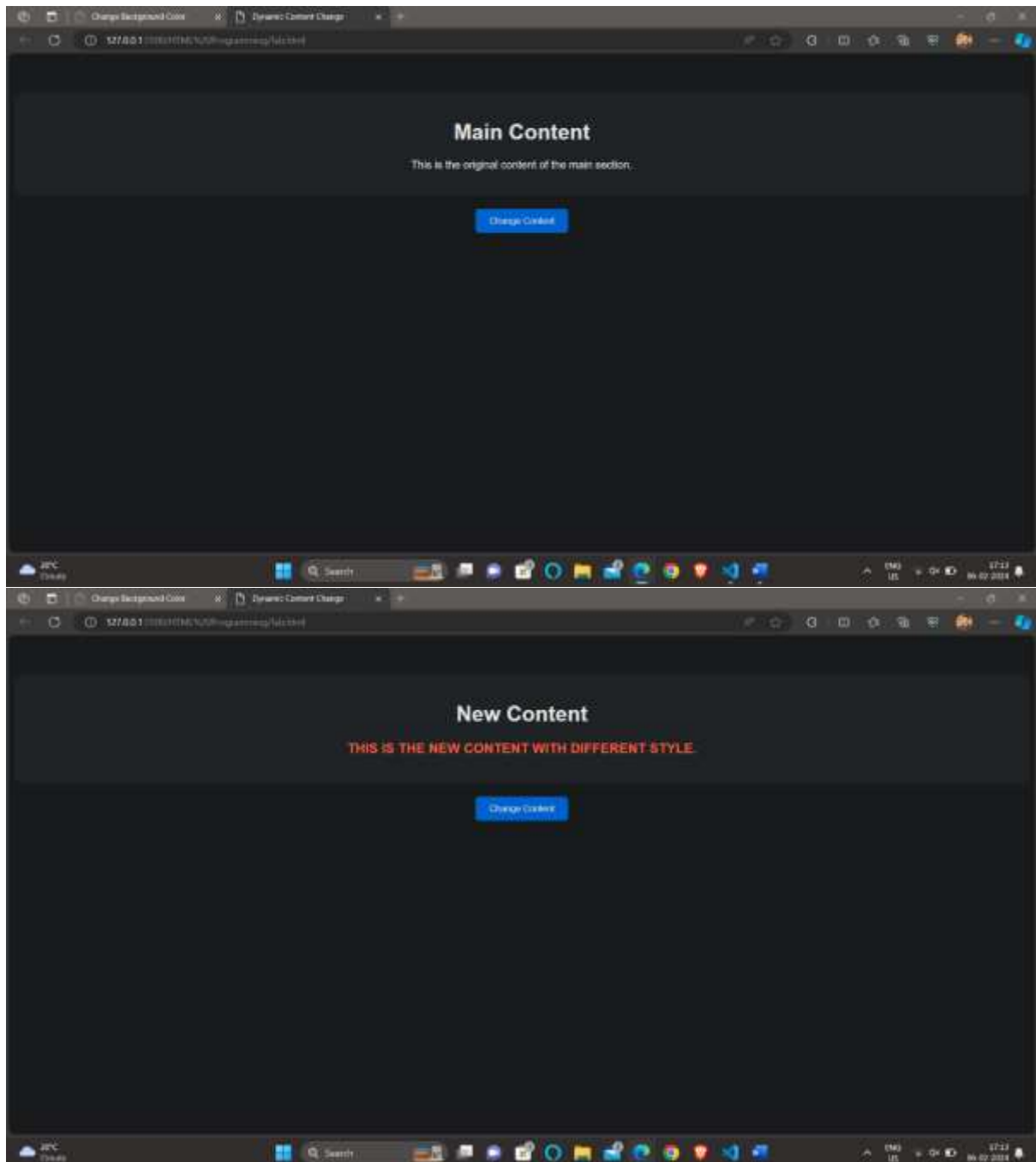
```

```
<script>
  const changeContentBtn = document.getElementById('changeContentBtn');
  const mainContent = document.querySelector('main');

  changeContentBtn.addEventListener('click', function() {
    mainContent.innerHTML = `
      <h1>New Content</h1>
      <p class="new-content">This is the new content with different
style.</p>
    `;
  });
</script>

</body>
</html>
```

Output :



Question 5

Code :

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Changing Heading Color</title>
<style>
    body {
```

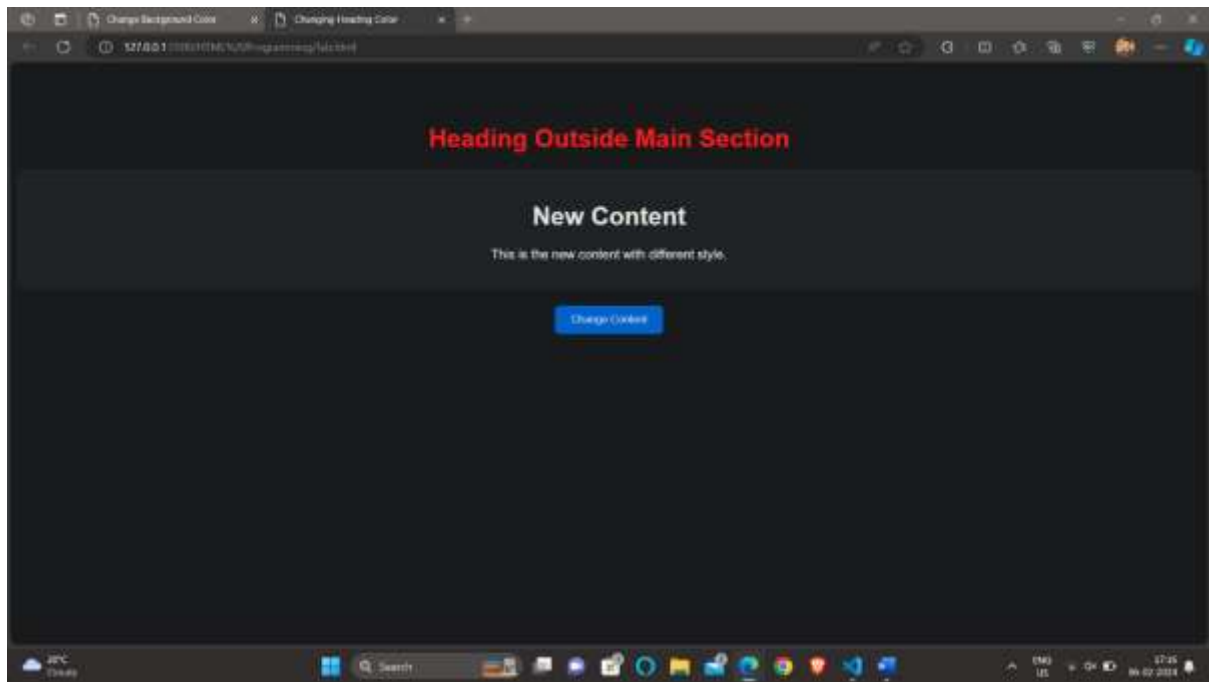
```

    font-family: Arial, sans-serif;
    text-align: center;
    padding-top: 50px;
}
main {
    background-color: #f0f0f0;
    padding: 20px;
    border-radius: 10px;
    margin-bottom: 20px;
}
.container {
    display: flex;
    justify-content: center;
    align-items: center;
    margin-top: 20px;
}
.btn {
    padding: 10px 20px;
    background-color: #007bff;
    color: #fff;
    border: none;
    border-radius: 5px;
    cursor: pointer;
    transition: background-color 0.3s;
}
.btn:hover {
    background-color: #0056b3;
}
.heading-style {
    color: green;
}
</style>
</head>
<body>
<h1 id="heading">Heading Outside Main Section</h1>
<main>
    <h1>Main Content</h1>
    <p>This is the original content of the main section.</p>
</main>
<div class="container">
    <button id="changeContentBtn" class="btn">Change Content</button>
</div>
<script>
    const changeContentBtn = document.getElementById('changeContentBtn');
    const mainContent = document.querySelector('main');
    const heading = document.getElementById('heading');
    changeContentBtn.addEventListener('click', function() {
        mainContent.innerHTML = `

```

```
        <h1>New Content</h1>
        <p class="new-content">This is the new content with different
style.</p>
    `;
    let col=["Red","Blue","Green"];
    let val=col[Math.floor(Math.random()*col.length)];
    heading.style.color = val;
    });
</script>
</body>
</html>
```

Output :



Question 6

Code :

```
<!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;
  }

  .grid-container {
    display: grid;
    grid-template-rows: auto auto;
    grid-template-columns: repeat(5, 1fr); /* Adjust the number based on
the number of browsers */
    gap: 10px;
    padding: 20px;
  }

  .grid-item {
    text-align: center;
  }
```



```

.icon {
  width: 60px;
  height: 60px;
}

.version {
  font-size: 18px;
  margin-top: 5px;
}

table {
  width: 100%;
  border-collapse: collapse;
}

th, td {
  border: 1px solid #dddddd;
  padding: 8px;
  text-align: left;
}

th {
  background-color: #f2f2f2;
}
</style>
</head>
<body>

<table>
  <tbody>
    <tr>
      <td></td>
      <td></td>
      <td></td>
      <td></td>
      <td></td>
    </tr>
    <tr>
      <td>Latest Version: 57</td>
      <td>Latest Version: 52</td>
      <td>Latest Version: 16</td>
      <td>Latest Version: 10</td>
      <td>Latest Version: 44</td>
    </tr>
  </tbody>
</table>

</body>

```

```
</html>
```

Output :

