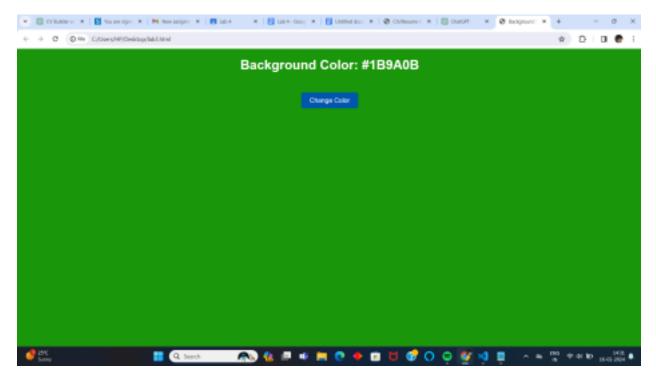
<u>Name</u>- Ishuman Roll No. - 22IT3017

```
Q1. <!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Background Color Changer</title>
<style>
  body {
    font-family: Arial, sans-serif;
    text-align: center;
    transition: background-color 0.5s;
  }
  h1 {
    color: white;
  .container {
     margin-top: 50px;
  }
  button {
     padding: 10px 20px;
    font-size: 16px;
    cursor: pointer;
    border: none;
     background-color: #007bff;
    color: white;
    border-radius: 5px;
    transition: background-color 0.3s;
  }
  button:hover {
     background-color: #0056b3;
  }
</style>
</head>
<body>
<h1 id="heading">Click the button to change background color</h1>
<div class="container">
  <button id="colorButton">Change Color</button>
</div>
```

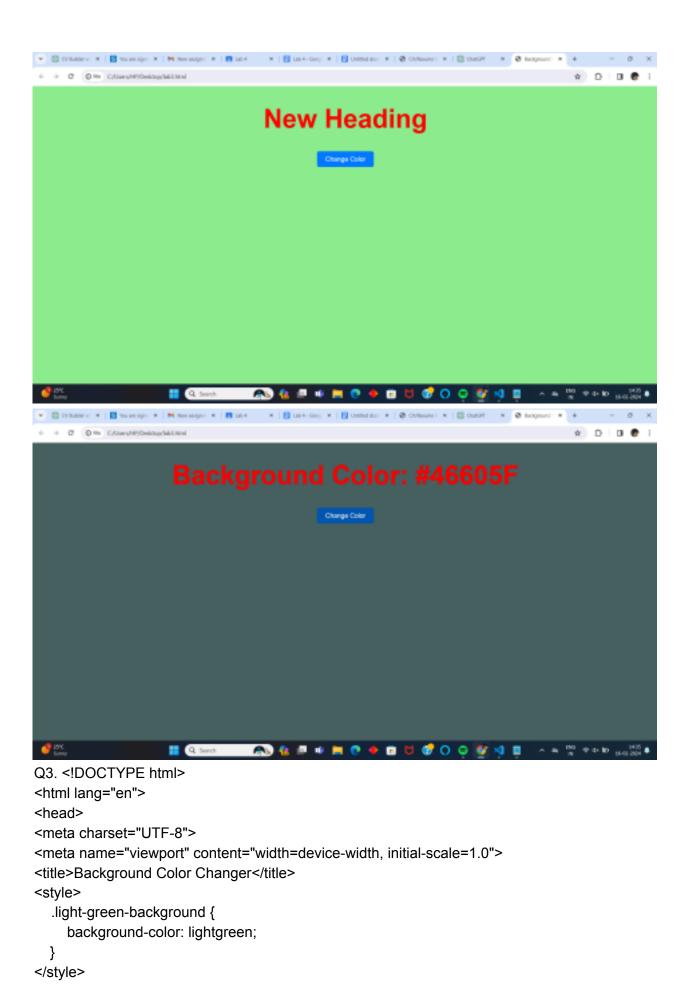
```
<script>
 // Function to generate a random hex color
  function getRandomColor() {
    const letters = '0123456789ABCDEF';
    let color = '#';
    for (let i = 0; i < 6; i++) {
      color += letters[Math.floor(Math.random() * 16)];
    }
    return color;
  }
 // Function to change background color and text
  function changeColor() {
    const newColor = getRandomColor();
    document.body.style.backgroundColor = newColor;
    document.getElementById('heading').innerText = `Background Color: ${newColor}`;
  }
 // Event listener for button click
  document.getElementById('colorButton').addEventListener('click', changeColor);
</script>
</body>
</html>
```





```
Q2. <!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Background Color Changer</title>
<style>
  body {
     font-family: Arial, sans-serif;
     text-align: center;
     transition: background-color 0.5s;
     background-color: lightgreen; /* a. Make the background light green */
  }
  h1 {
     color: red; /* b. Add a line that makes the text red */
     font-size: 48pt; /* c. Change the fontSize to 48pt */
  }
  .container {
     margin-top: 50px;
  button {
     padding: 10px 20px;
     font-size: 16px;
     cursor: pointer;
     border: none;
     background-color: #007bff;
     color: white;
     border-radius: 5px;
     transition: background-color 0.3s;
```

```
}
  button:hover {
     background-color: #0056b3;
  }
</style>
</head>
<body>
<h1 id="heading">New Heading</h1> <!-- d. Change the wording inside the <h1> tag in the
Javascript. -->
<button id="colorButton">Change Color</button> <!-- e. Add <button>Click Me</button> after
the closing </h1>. -->
<script>
  // Function to generate a random hex color
  function getRandomColor() {
     const letters = '0123456789ABCDEF';
     let color = '#';
     for (let i = 0; i < 6; i++) {
       color += letters[Math.floor(Math.random() * 16)];
     return color;
  }
  // Function to change background color and text
  function changeColor() {
     const newColor = getRandomColor();
     document.body.style.backgroundColor = newColor;
     document.getElementById('heading').innerText = `Background Color: ${newColor}`;
  }
  // Event listener for button click
  document.getElementById('colorButton').addEventListener('click', changeColor);
</script>
</body>
</html>
```

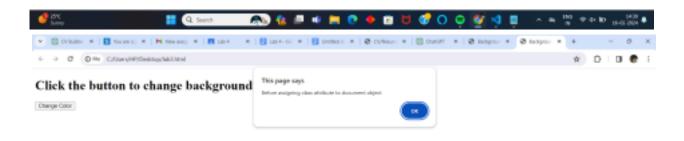


```
</head>
<body>
<h1 id="heading">Click the button to change background color</h1>
<div class="container">
  <button id="colorButton">Change Color</button>
</div>
<script>
  // Function to generate a random hex color
  function getRandomColor() {
    const letters = '0123456789ABCDEF';
    let color = '#':
    for (let i = 0; i < 6; i++) {
       color += letters[Math.floor(Math.random() * 16)];
    }
    return color;
  }
  // Function to change background color and text
  function changeColor() {
    alert("Before assigning class attribute to document object");
    document.body.classList.add('light-green-background');
    alert("After assigning class attribute to document object");
    const newColor = getRandomColor();
    document.getElementById('heading').innerText = `Background Color: ${newColor}`;
  }
  // Event listener for button click
  document.getElementById('colorButton').addEventListener('click', changeColor);
</script>
</body>
</html>
```



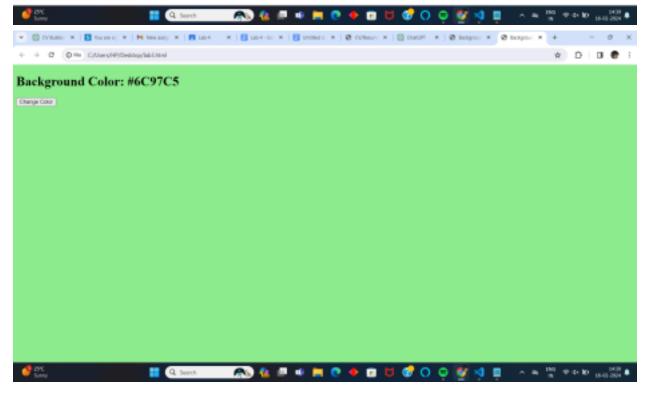
Click the button to change background color

Charge Color





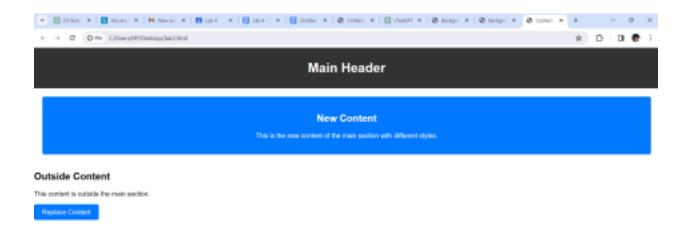


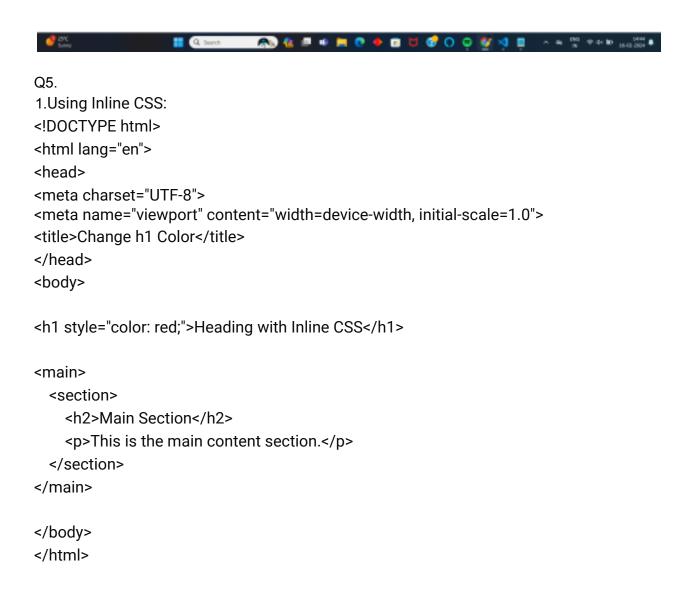


```
Q4. <!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Content Replacement</title>
<style>
body {
font-family: Arial, sans-serif;
margin: 0;
padding: 0;
```

```
}
  header {
     background-color: #333;
    color: white;
    padding: 10px;
    text-align: center;
  }
  main {
     padding: 20px;
  }
  #content1 {
     background-color: #f0f0f0;
     padding: 20px;
     border: 1px solid #ccc;
     border-radius: 5px;
    text-align: center;
  }
  #content2 {
     background-color: #007bff;
    color: white;
     padding: 20px;
     border: 1px solid #0056b3;
     border-radius: 5px;
    text-align: center;
  }
  button {
     padding: 10px 20px;
    font-size: 16px;
    cursor: pointer;
     border: none;
     background-color: #007bff;
    color: white;
    border-radius: 5px;
    transition: background-color 0.3s;
  }
  button:hover {
     background-color: #0056b3;
</style>
</head>
<body>
<header>
  <h1>Main Header</h1>
</header>
<main>
  <section id="content1">
```

```
<h2>Content 1</h2>
                This is the initial content of the main section.
        </section>
</main>
<div id="outsideContent">
        <h2>Outside Content</h2>
        This content is outside the main section.
</div>
<button id="replaceButton">Replace Content</button>
<script>
       document.getElementById('replaceButton').addEventListener('click', function() {
                document.getElementById('content1').innerHTML = `
                         <h2>New Content</h2>
                         This is the new content of the main section with different styles.
                document.getElementById('content1').style.backgroundColor = '#007bff';
                document.getElementById('content1').style.color = 'white';
       });
</script>
</body>
</html>
  ▼ ② CYSSC K | ② COSSC K | N Security | M Se
    ← → Ø © Re CytoryH9/DedagySkit/test
                                                                                                                                                                                                                                                                                       * D D 6 i
                                                                                                                                              Main Header
                                                                                                                                                       Content 1
                                                                                                                                  This is the initial content of the reain section.
  Outside Content
  This content is outside the main section
```







```
Using internal css:
<!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: blue;
 }
</style>
</head>
<body>
<h1>Heading with Internal CSS</h1>
<main>
  <section>
    <h2>Main Section</h2>
   This is the main content section.
  </section>
</main>
</body>
```

* *** On *** *** Note* No

```
Using external css:
<!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>
k rel="stylesheet" type="text/css" href="st.css">
</head>
<body>
<h1>Heading with External CSS</h1>
<main>
  <section>
   <h2>Main Section</h2>
   This is the main content section.
  </section>
</main>
</body>
</html>
h1 {
  color: green;
```



This is the main contest section.

```
Q6. <!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-columns: repeat(5, 1fr); /* 5 columns for the 5 browsers */
    gap: 10px;
    justify-content: center;
    align-items: center;
    padding: 20px;
  }
  .browser-icon {
    text-align: center;
  }
  .browser-icon img {
    width: 100px;
  }
```

```
.browser-version {
    text-align: center;
 }
</style>
</head>
<body>
<div class="grid-container">
  <div class="browser-icon"><img src="C:\Users\HP\Desktop\Chrome-Logo.png"</pre>
alt="Google Chrome"></div>
  <div class="browser-icon"><img src="C:\Users\HP\Desktop\microsoft.jpg"</pre>
alt="Microsoft Edge"></div>
  <div class="browser-icon"><img src="C:\Users\HP\Desktop\mozila.png" alt="Mozilla</pre>
Firefox"></div>
  <div class="browser-icon"><img src="C:\Users\HP\Desktop\apple safari.jpg"</pre>
alt="Apple Safari"></div>
  <div class="browser-icon"><img src="C:\Users\HP\Desktop\Opera-Logo.png"</pre>
alt="Opera"></div>
</div>
<div class="grid-container">
  <div class="browser-version">Latest Version: 98.0.4758.102 (64-bit)
  <div class="browser-version">Latest Version: 98.0.1108.62 (64-bit)
  <div class="browser-version">Latest Version: 97.0 (64-bit)</div>
  <div class="browser-version">Latest Version: 15.3.1</div>
  <div class="browser-version">Latest Version: 79.0.3945.130</div>
</div>
</body>
</html>
```

