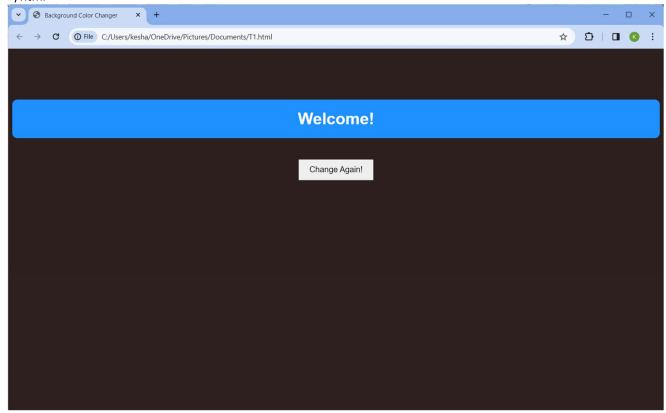
Name – Keshav Kumar Roll No. – 22CS3034 Lab-4

```
<!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;
    }
    #container {
      margin-top: 100px;
    }
    h1 {
      color: white;
      background-color: dodgerblue;
      padding: 20px;
      border-radius: 10px;
    }
    #changeButton {
      margin-top: 20px;
      padding: 10px 20px;
      font-size: 16px;
      cursor: pointer;
    }
  </style>
</head>
<body>
  <div id="container">
    <h1 id="heading">Welcome!</h1>
    <button id="changeButton" onclick="changeBackground()">Change Background Color</button>
  </div>
  <script>
    function changeBackground() {
      var heading = document.getElementById("heading");
      var button = document.getElementById("changeButton");
      var r = Math.floor(Math.random() * 256);
      var g = Math.floor(Math.random() * 256);
      var b = Math.floor(Math.random() * 256);
      document.body.style.backgroundColor = "rgb(" + r + "," + g + "," + b + ")";
```

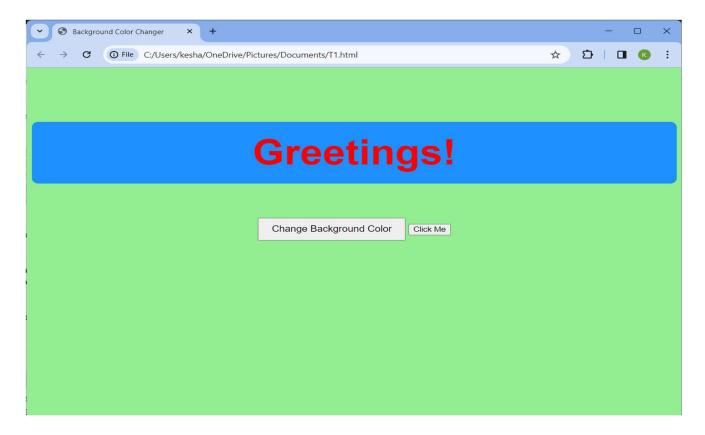
```
var brightness = (r * 299 + g * 587 + b * 114) / 1000;
var textColor = (brightness > 125) ? "black" : "white";
heading.style.color = textColor;

button.textContent = "Change Again!";
}
</script>
</body>
```

</html>



```
color: white;
      background-color: dodgerblue;
      padding: 20px;
      border-radius: 10px;
    }
    #changeButton {
      margin-top: 20px;
      padding: 10px 20px;
      font-size: 16px;
      cursor: pointer;
  </style>
</head>
<body>
  <div id="container">
    <h1 id="heading">Welcome!</h1>
    <button id="changeButton" onclick="changeBackground()">Change Background Color</button>
    <button onclick="changeText()">Click Me</button>
  </div>
  <script>
    function changeBackground() {
      document.body.style.backgroundColor = "lightgreen";
      var heading = document.getElementById("heading");
      heading.style.color = "red";
      heading.style.fontSize = "48pt";
    }
    function changeText() {
      var heading = document.getElementById("heading");
      heading.textContent = "Greetings!";
    }
 </script>
</body>
</html>
```

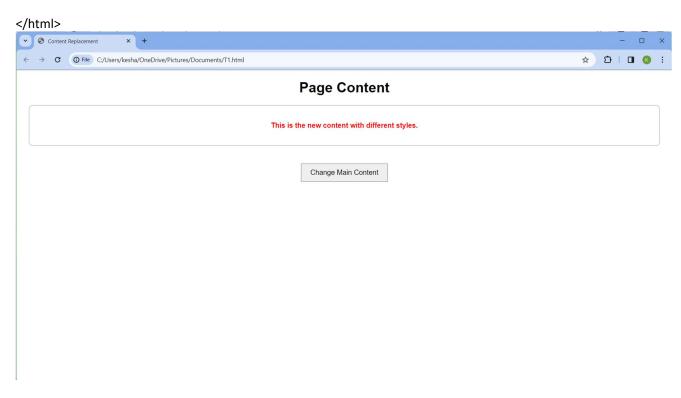


```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Background Color Changer</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      text-align: center;
    }
    .light-green-bg {
      background-color: lightgreen;
    #container {
      margin-top: 100px;
    }
    h1 {
      color: white;
      background-color: dodgerblue;
      padding: 20px;
      border-radius: 10px;
    }
    #changeButton {
      margin-top: 20px;
      padding: 10px 20px;
```

```
font-size: 16px;
      cursor: pointer;
  </style>
</head>
<body>
  <div id="container">
    <h1 id="heading">Welcome!</h1>
    <button id="changeButton" onclick="changeBackground()">Change Background Color</button>
  <script>
    function changeBackground() {
      alert("Before assigning class attribute");
      document.body.className = "light-green-bg";
      alert("After assigning class attribute");
    }
  </script>
</body>
</html>
 ▼ Sackground Color Changer
                                                                                                           C:/Users/kesha/OneDrive/Pictures/Documents/T1.html
                                                                                                  This page says
                                   Before assigning class attribute
                                               Change Background Color
```

```
<!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;
      text-align: center;
    }
    main {
      margin: 20px;
      padding: 20px;
      border: 2px solid #ccc;
      border-radius: 10px;
    }
    .original-content {
      color: #333;
    }
    .new-content {
      color: red;
      font-weight: bold;
    }
    #changeButton {
      margin-top: 20px;
      padding: 10px 20px;
      font-size: 16px;
      cursor: pointer;
  </style>
</head>
<body>
  <h1>Page Content</h1>
  <main class="original-content">
    This is the original content within the main section.
  </main>
  <button id="changeButton" onclick="changeContent()">Change Main Content</button>
  <script>
    function changeContent() {
      var mainSection = document.querySelector("main");
      mainSection.innerHTML = "This is the new content with different styles.
  </script>
```

</body>



```
T5
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Heading Color Change</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      text-align: center;
    }
    main {
      margin: 20px;
      padding: 20px;
      border: 2px solid #ccc;
      border-radius: 10px;
    }
    .original-content {
      color: #333;
    }
    h1 {
      margin-top: 50px;
      color: blue;
      /* Default color */
  </style>
</head>
```

```
<body>
  <h1>This is a heading outside the main section.</h1>
  <main class="original-content">
    This is the original content within the main section.
  </main>
  <button onclick="changeHeadingColor()">Change Heading Color</button>
  <script>
    function changeHeadingColor() {
      var heading = document.querySelector("h1");
      // Method 1: Changing color using inline style
      heading.style.color = "red";
      // Method 2: Changing color using a class
      heading.className = "green-text";
      // Method 3: Changing color using direct attribute manipulation
      heading.setAttribute("style", "color: purple;");
  </script>
</body>
</html>
    Heading Color Change
            ● File C:/Users/kesha/OneDrive/Pictures/Documents/T1.html
                      This is a heading outside the main section.
                                      This is the original content within the main section.
                                                 Change Heading Color
T6
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Browser Grid</title>
  <style>
    .grid-container {
```

display: grid;

```
grid-template-columns: repeat(5, 1fr);
      gap: 10px;
      padding: 20px;
    .grid-item img {
      width: 100%;
      max-width: 100px;
      height: auto;
      display: block;
      margin: 0 auto;
    }
    .grid-item {
      text-align: center;
  </style>
</head>
<body>
  <div class="grid-container">
    <div class="grid-item"><img
        src="https://upload.wikimedia.org/wikipedia/commons/8/87/Google Chrome icon %282011%29.png"
        alt="Chrome">
    </div>
    <div class="grid-item"><img
        src="https://upload.wikimedia.org/wikipedia/commons/thumb/2/28/Firefox logo%2C 2017.svg/2048px-
Firefox logo%2C 2017.svg.png"
        alt="Firefox"></div>
    <div class="grid-item"><img src="https://static-00.iconduck.com/assets.00/edge-icon-2048x2048-amdajrk0.png"</pre>
        alt="Edge"></div>
    <div class="grid-item"><img
        src="https://upload.wikimedia.org/wikipedia/commons/thumb/5/52/Safari_browser_logo.svg/2057px-
Safari browser logo.svg.png"
        alt="Safari"></div>
    <div class="grid-item"><img
        src="https://upload.wikimedia.org/wikipedia/commons/thumb/4/49/Opera_2015_icon.svg/512px-
Opera_2015_icon.svg.png"
        alt="Opera"></div>
    <div class="grid-item">57.0</div>
    <div class="grid-item">52.0</div>
    <div class="grid-item">16.0</div>
    <div class="grid-item">10</div>
    <div class="grid-item">44</div>
  </div>
</body>
</html>
```

