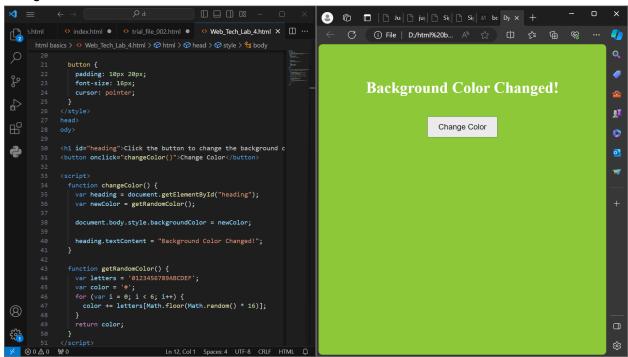
Web Technology Lab - 4

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T1)

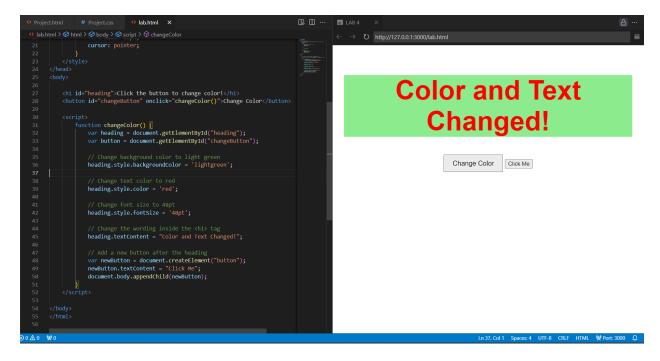
Create a webpage that has a heading and a button. Write a script to change the background colour and text when the button is clicked.



- T2. For T1, experiment with the Javascript code by trying the following things:
- a. Make the background light green.
- b. Add a line that makes the text red.
- c. Change the font size to 48pt.
- d. Change the wording inside the <h1> tag in the Javascript.
- e. Add <button>Click Me</button> after the closing </h1>.

```
font-family: Arial, sans-serif;
            text-align: center;
            padding: 20px;
        }
       h1 {
            color: #333;
        }
        #changeButton {
            padding: 10px 20px;
            font-size: 16px;
            cursor: pointer;
   </style>
</head>
<body>
   <h1 id="heading">Click the button to change color!</h1>
   <button id="changeButton" onclick="changeColor()">Change
Color</button>
   <script>
        function changeColor() {
            var heading = document.getElementById("heading");
            var button = document.getElementById("changeButton");
            // Change background color to light green
            heading.style.backgroundColor = 'lightgreen';
            // Change text color to red
            heading.style.color = 'red';
            // Change font size to 48pt
            heading.style.fontSize = '48pt';
            // Change the wording inside the <h1> tag
            heading.textContent = "Color and Text Changed!";
            // Add a new button after the heading
```

```
var newButton = document.createElement("button");
    newButton.textContent = "Click Me";
    document.body.appendChild(newButton);
}
</script>
</body>
</html>
```

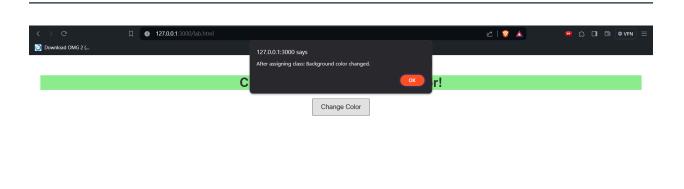


T3. For T1, set the color of the background directly with the class attribute. Generate alerts before and after assigning the class attribute to document object.

```
padding: 20px;
        }
        .lightGreenBackground {
            background-color: lightgreen;
        }
        h1 {
            color: #333;
        }
        #changeButton {
            padding: 10px 20px;
            font-size: 16px;
            cursor: pointer;
        }
    </style>
</head>
<body>
    <h1 id="heading">Click the button to change color!</h1>
    <button id="changeButton" onclick="changeColor()">Change
Color</button>
    <script>
        function changeColor() {
            var heading = document.getElementById("heading");
            var button = document.getElementById("changeButton");
            // Alert before assigning the class
            alert("Before assigning class: Background color will be
changed.");
            // Assign the class to change the background color
            heading.classList.add("lightGreenBackground");
            alert("After assigning class: Background color changed.");
    </script>
```



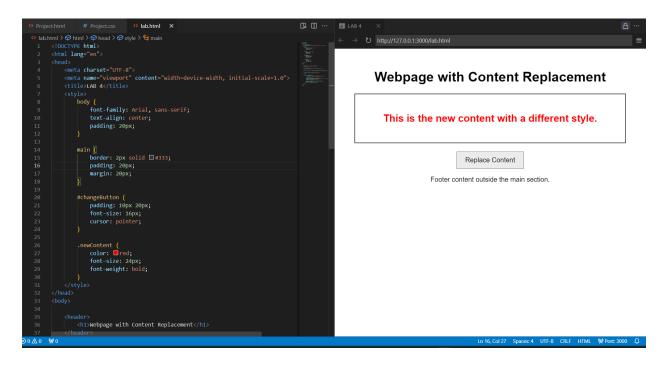




T4. Design a page having contents within and outside the main section. The page must contain a button that when clicked replaces the content of the main section with another content having different style.

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>LAB 4</title>
   <style>
       body {
            font-family: Arial, sans-serif;
            text-align: center;
           padding: 20px;
        }
       main {
            border: 2px solid #333;
            padding: 20px;
           margin: 20px;
        }
        #changeButton {
            padding: 10px 20px;
            font-size: 16px;
            cursor: pointer;
        }
        .newContent {
            color: red;
            font-size: 24px;
            font-weight: bold;
   </style>
</head>
<body>
    <header>
```

```
<h1>Webpage with Content Replacement</h1>
   </header>
   <main id="mainSection">
       This is the initial content of the main section.
   </main>
   <button id="changeButton" onclick="replaceContent()">Replace
Content</button>
   <footer>
       Footer content outside the main section.
   </footer>
   <script>
       function replaceContent() {
           var mainSection = document.getElementById("mainSection");
           // Create new content
           var newContent = document.createElement("p");
           newContent.textContent = "This is the new content with a
different style.";
           newContent.classList.add("newContent");
           // Replace existing content with the new content
           mainSection.innerHTML = ""; // Clear existing content
           mainSection.appendChild(newContent);
   </script>
</body>
</html>
```



T5. Consider a h1 heading lying outside the main section in the page. Try changing the color of h1 in at least 3 different ways.

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>LAB 4</title>
   <style>
       body {
            font-family: Arial, sans-serif;
            text-align: center;
            padding: 20px;
        }
        h1 {
            margin-bottom: 20px;
        }
        /* Method 1: Using a specific color */
        .method1 {
            color: red;
```

```
/* Method 2: Using hexadecimal color code */
        .method2 {
            color: #00ff00; /* Green color */
        }
        /* Method 3: Using RGB color values */
        .method3 {
            color: rgb(0, 0, 255); /* Blue color */
        }
   </style>
</head>
<body>
   <h1 class="method1">Heading with Color (Method 1)</h1>
   <h1 class="method2">Heading with Color (Method 2)</h1>
   <h1 class="method3">Heading with Color (Method 3)</h1>
</body>
</html>
```

T6. Design a webpage using grid layout that displays the following:

| 0 | C | | | 0 |
|------|------|------|----|----|
| 57.0 | 16.0 | 52.0 | 10 | 44 |

The first row shows icons of various web browsers and the second row shows the latest version number.

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>LAB 4</title>
 <style>
   body {
     font-family: Arial, sans-serif;
     margin: 0;
     padding: 0;
   .grid-container {
     display: grid;
     grid-template-rows: auto auto; /* Two rows with auto height */
     grid-template-columns: repeat(5, 1fr); /* Five columns with equal
width */
     gap: 10px; /* Gap between grid items */
     padding: 20px; /* Padding around the grid */
    .grid-item {
     text-align: center;
    .grid-item img {
     max-width: 100px; /* Limit maximum width of the icons */
 </style>
</head>
<body>
 <div class="grid-container">
   <!-- First row: Icons of various web browsers -->
```

```
<div class="grid-item"><img src="chrome.png"</pre>
alt="Chrome">Chrome</div>
    <div class="grid-item"><img src="edge.png"</pre>
alt="Edge">Edge</div>
    <div class="grid-item"><img src="firefox.png"</pre>
alt="Firefox">Firefox</div>
    <div class="grid-item"><img src="safari.webp"</pre>
alt="Safari">Safari</div>
    <div class="grid-item"><img src="opera.png"</pre>
alt="Opera">Opera</div>
   <!-- Second row: Latest version numbers -->
   <div class="grid-item">57.0</div>
   <div class="grid-item">16.0</div>
   <div class="grid-item">52.0</div>
   <div class="grid-item">10</div>
   <div class="grid-item">44</div>
 </div>
</body>
</html>
```

