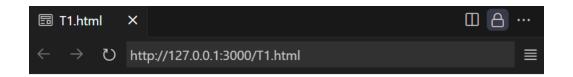
#### WebTech LAB

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**RollNo: 22CS2038** 

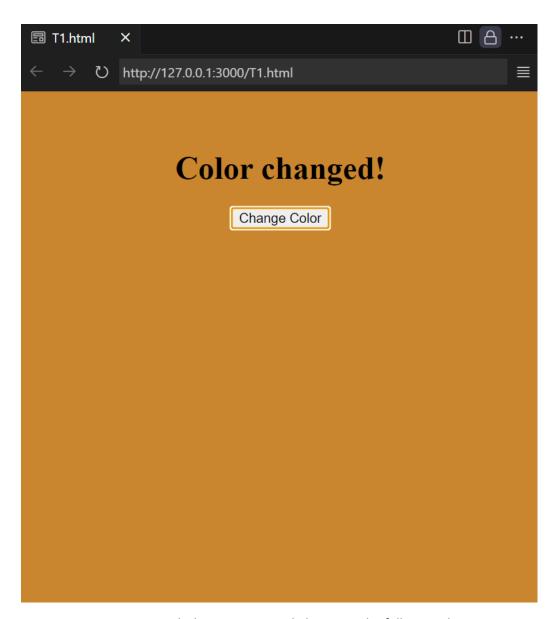
**T1**. Create a webpage that has a heading and a button. Write a script to change the background color and text when the button is clicked.

```
<html>
   <style>
       body {
            text-align: center;
            padding: 50px;
            transition: background-color 0.5s;
    </style>
<body>
    <h1 id="heading">Click the button to change color</h1>
    <button id="colorButton">Change Color</button>
        document.getElementById("colorButton").addEventListener("click",
function() {
            var randomColor = getRandomColor();
            document.body.style.backgroundColor = randomColor;
            document.getElementById("heading").innerText = "Color changed!";
        });
        function getRandomColor() {
            var letters = '0123456789ABCDEF';
            var color = '#';
            for (var i = 0; i < 6; i++) {
                color += letters[Math.floor(Math.random() * 16)];
            return color;
    </script>
</body>
```



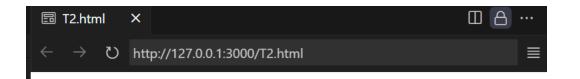
## Click the button to change color

Change Color



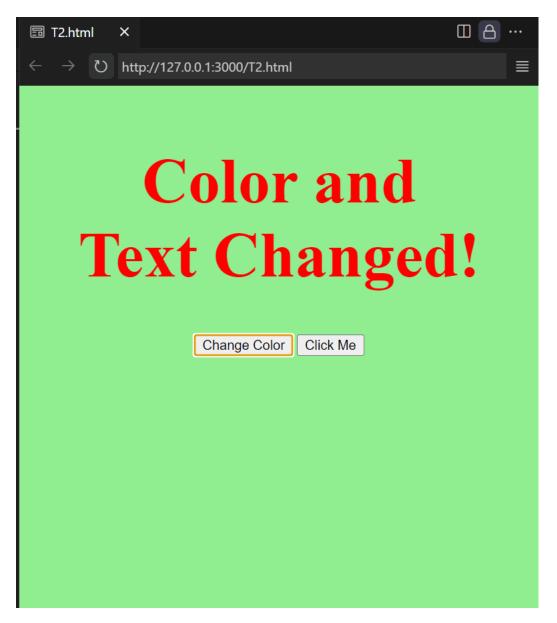
- **T2.** For T1, experiment with the Javascript code by trying the following things:
- a. Make the background light green.
- b. Add a line that makes the text red.
- c. Change the fontSize to 48pt.
- d. Change the wording inside the <h1> tag in the Javascript.
- e. Add <button>Click Me</button> after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

```
#heading {
            color: black;
            font-size: 24pt;
    </style>
</head>
<body>
    <h1 id="heading">Click the button to change color</h1>
    <button id="colorButton">Change Color</button>
    <script>
        document.getElementById("colorButton").addEventListener("click",
function() {
            document.body.style.backgroundColor = "lightgreen";
            document.getElementById("heading").style.color = "red";
            document.getElementById("heading").style.fontSize = "48pt";
            document.getElementById("heading").innerText = "Color and Text
Changed!";
            var newButton = document.createElement("button");
            newButton.innerText = "Click Me";
            document.body.appendChild(newButton);
        });
    </script>
</body>
</html>
```



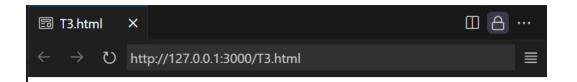
## Click the button to change color

Change Color



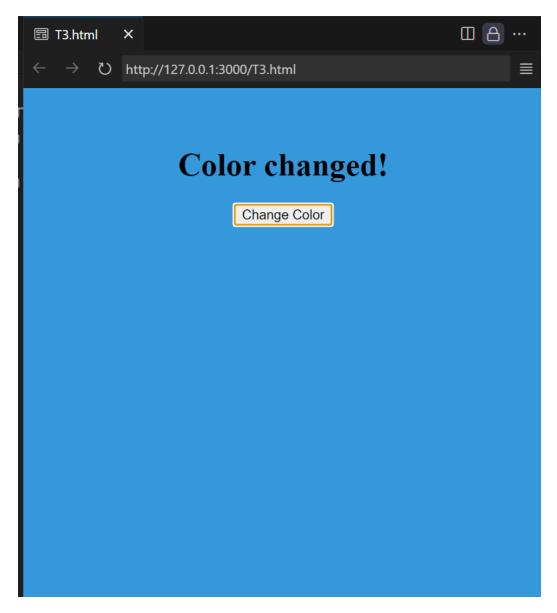
**T3**. For T1, set the color of the background directly with the class attribute. Generate alerts before and after assigning the class attribute to document object.

```
</style>
</head>
<body>
    <h1 id="heading">Click the button to change color</h1>
    <button id="colorButton">Change Color</button>
    <script>
        function getRandomColorClass() {
            var classes = ['blue-background', 'green-background'];
            var randomIndex = Math.floor(Math.random() * classes.length);
            return classes[randomIndex];
        alert("Before assigning the class attribute!");
        document.getElementById("colorButton").addEventListener("click",
function() {
            var randomColorClass = getRandomColorClass();
            document.body.className = randomColorClass;
            document.getElementById("heading").innerText = "Color changed!";
            alert("After assigning the class attribute!");
        });
    </script>
</body>
</html>
```



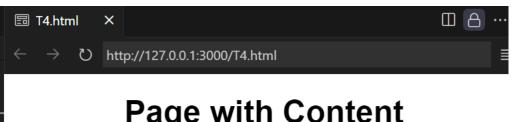
#### Click the button to change color

Change Color



**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.

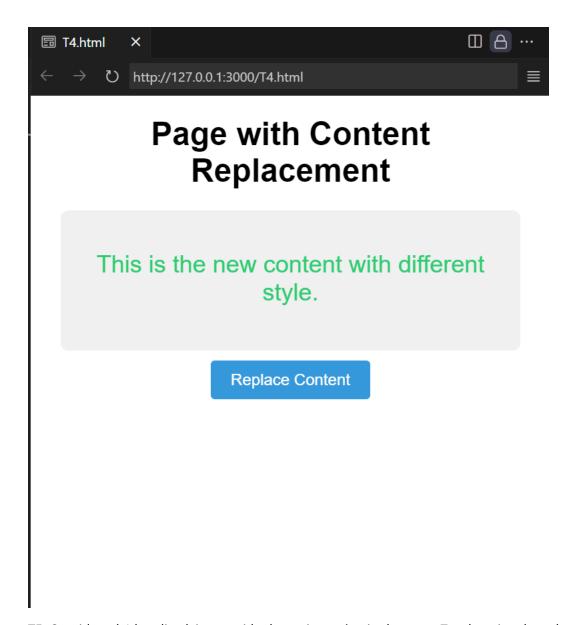
```
}
       #button {
           background-color: #3498db;
           color: #ffffff;
           padding: 10px 20px;
           font-size: 16px;
           cursor: pointer;
           border: none;
           border-radius: 4px;
       #newContent {
           color: #2ecc71;
           font-size: 24px;
           margin-top: 20px;
   </style>
</head>
<body>
   <h1>Page with Content Replacement</h1>
   <div id="mainSection">
       This is the initial content inside the main section.
   <button id="button" onclick="replaceContent()">Replace Content</button>
   <script>
       function replaceContent() {
           var mainSection = document.getElementById("mainSection");
           mainSection.innerHTML = "This is the new
content with different style.";
   </script>
</body>
</html>
```



# Page with Content Replacement

This is the initial content inside the main section.

Replace Content

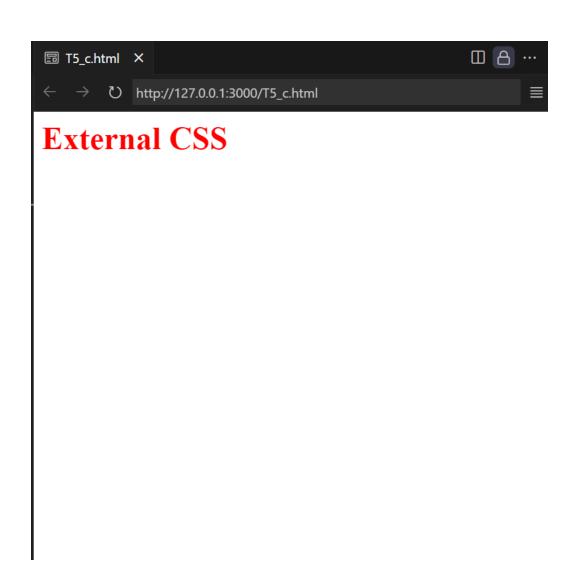


**T5**. Consider a h1 heading lying outside the main section in the page. Try changing the color of h1 in at least 3 different ways.



```
<html>
    <style>
        h1 {
            color: green;
    </style>
<body>
    <h1>Internal CSS</h1>
</body>
</html>
                                                              田 日 …
 □ T5_b.html ×
 \leftarrow \rightarrow \circlearrowleft http://127.0.0.1:3000/T5_b.html
Internal CSS
                                                                         <html>
    <link rel="stylesheet" href="T5_c_styles.css">
<body>
    <h1>External CSS</h1>
</body>
</html>
```

```
h1 {
    color: red;
}
```



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

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

```
background-color: lightgray;
    </style>
<body>
   <div class="grid-container">
       <div class="browser">
            <img src="Chrome.jpg" alt="Chrome Icon">
            <div class="version">57.0</div>
        </div>
        <div class="browser">
            <img src="Edge.jpg" alt="Edge Icon">
            <div class="version">16.0</div>
       </div>
        <div class="browser">
            <img src="Firefox.jpg" alt="Firefox Icon">
            <div class="version">52.0</div>
        </div>
        <div class="browser">
            <img src="Safari.jpg" alt="Safari Icon">
            <div class="version">10</div>
        </div>
        <div class="browser">
            <img src="Opera.jpg" alt="Opera Icon">
            <div class="version">44</div>
       </div>
   </div>
</body>
</html>
```

