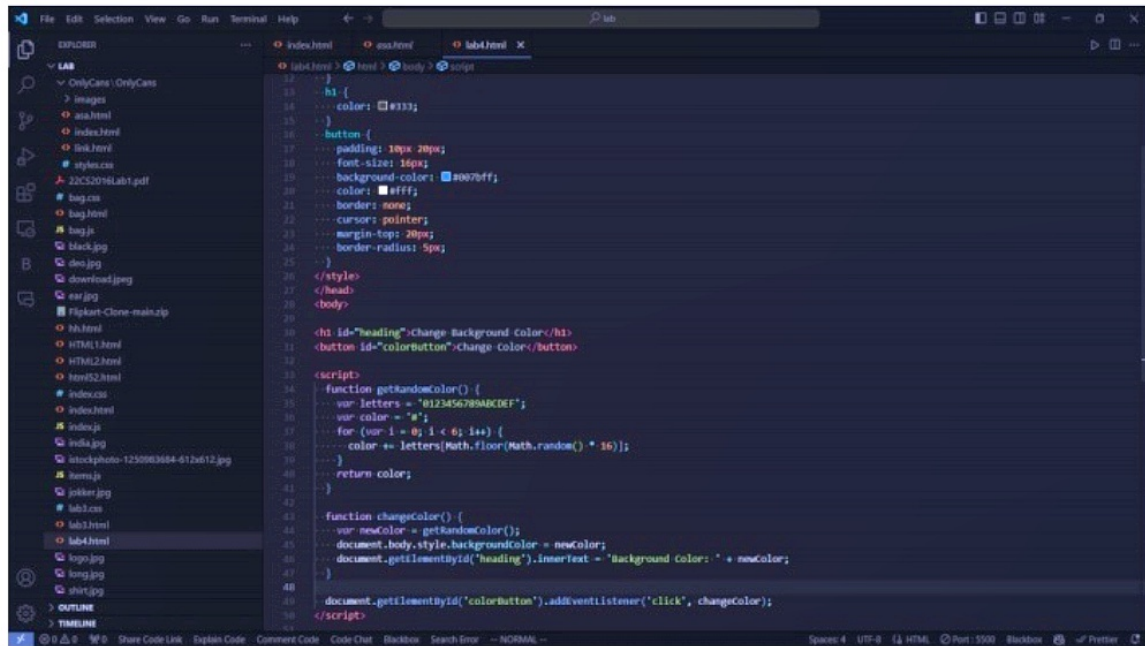
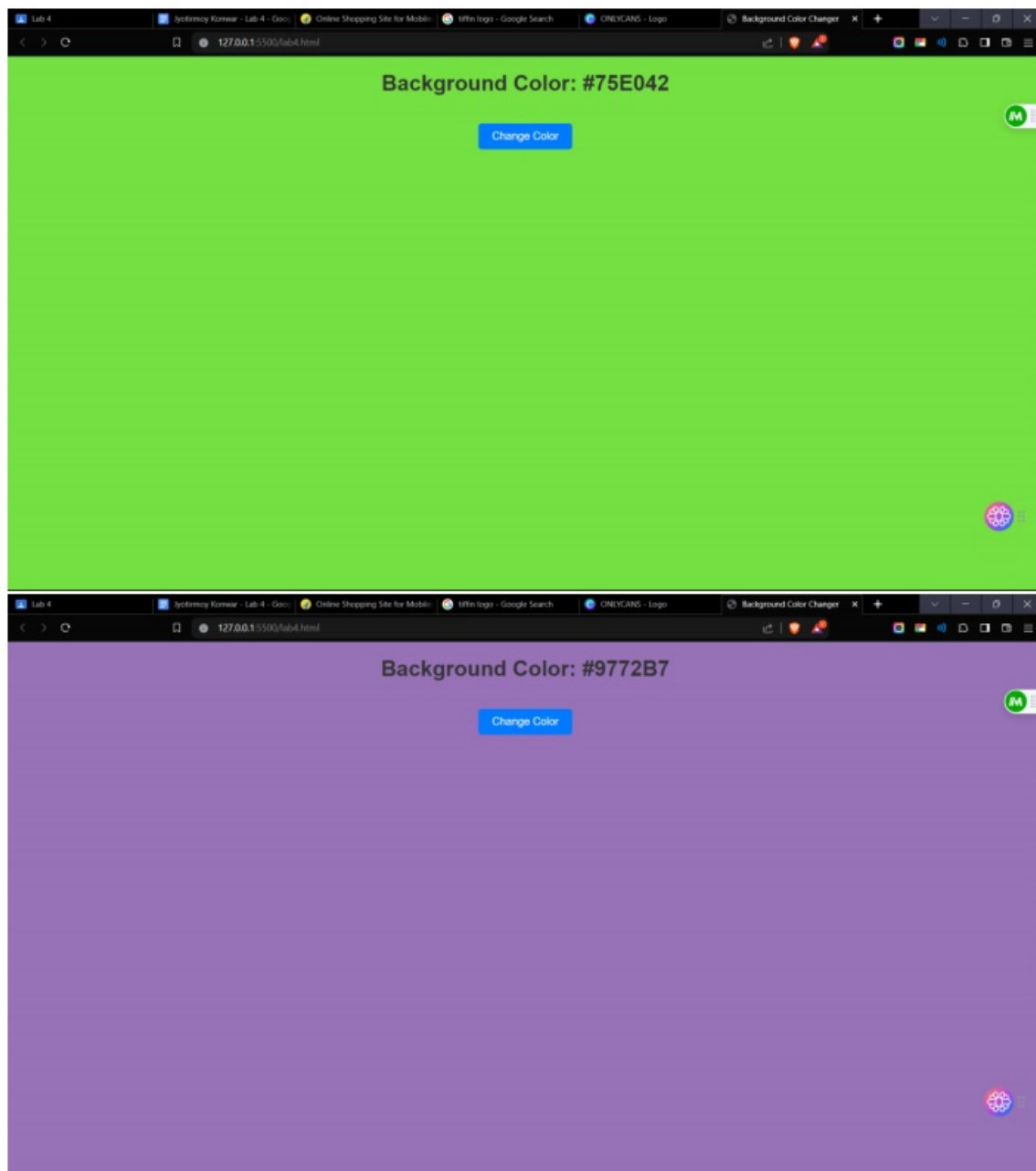


T1. Create a webpage that has a heading and a button. Write a script to change the background color and text when the button is clicked.

Ans.-



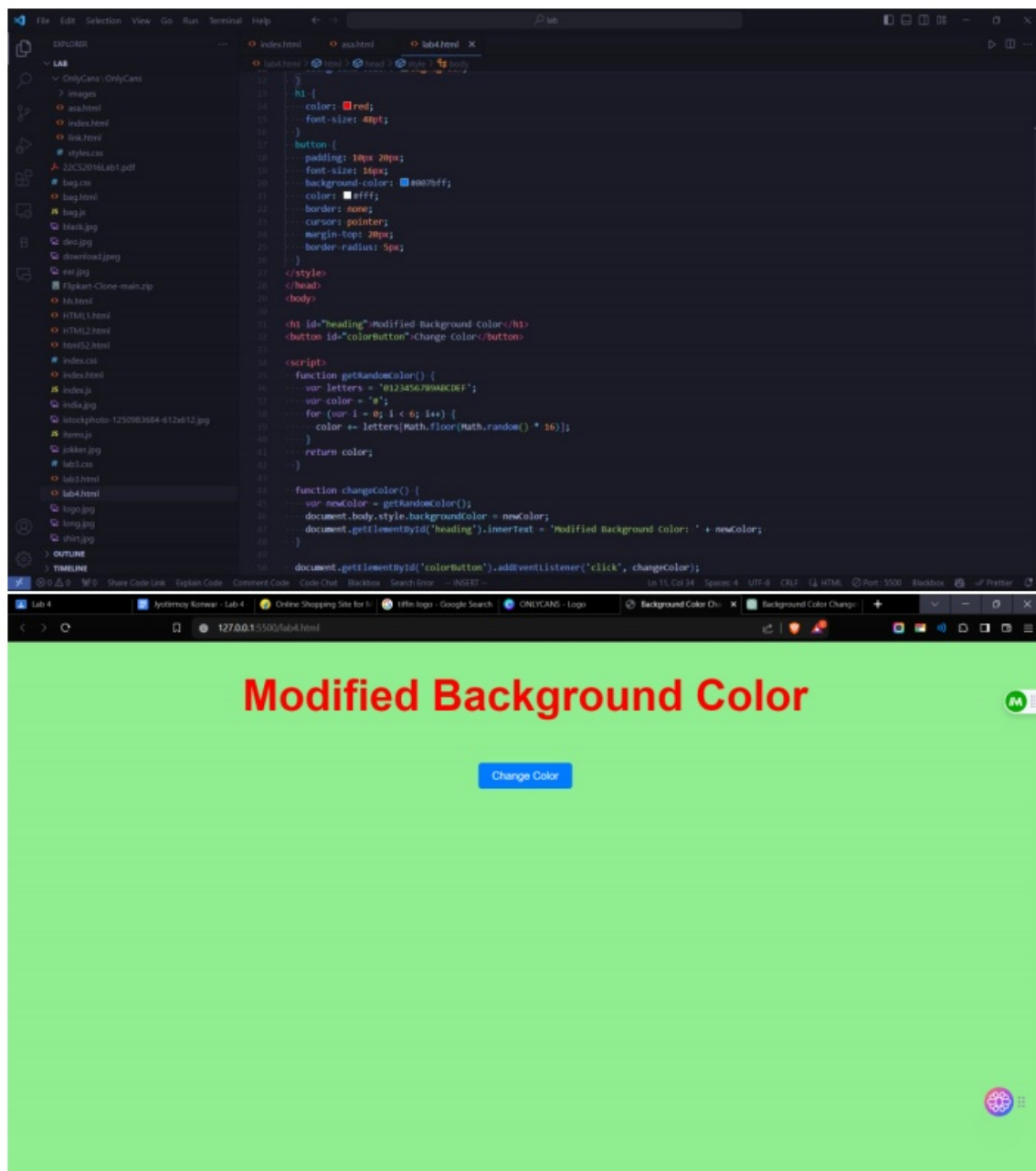
```
12 </div>
13 <h1>
14   color: #333;
15 </h1>
16 <button>
17   padding: 10px 20px;
18   font-size: 16px;
19   background-color: #007bff;
20   color: #fff;
21   border: none;
22   cursor: pointer;
23   margin-top: 20px;
24   border-radius: 5px;
25 </button>
26 </style>
27 </head>
28 <body>
29
30 <h1 id="heading">Change Background Color</h1>
31 <button id="colorbutton">Change Color</button>
32
33 <script>
34   function getRandomColor() {
35     var letters = '0123456789ABCDEF';
36     var color = '';
37     for (var i = 0; i < 6; i++) {
38       color += letters[Math.floor(Math.random() * 16)];
39     }
40     return color;
41   }
42
43   function changeColor() {
44     var newColor = getRandomColor();
45     document.body.style.backgroundColor = newColor;
46     document.getElementById('heading').innerText = 'Background Color: ' + newColor;
47   }
48   document.getElementById('colorbutton').addEventListener('click', changeColor);
49 </script>
50
```

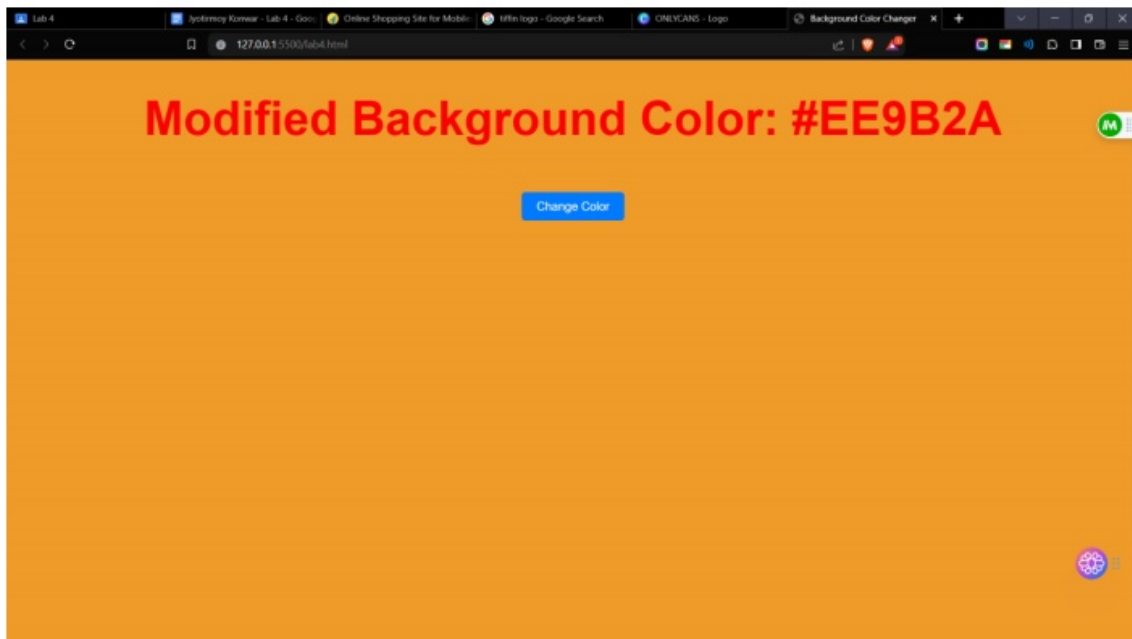


T2. For T1, experiment with the Javascript code by trying the following things:

- Make the background light green.
- Add a line that makes the text red.
- Change the fontSize to 48pt.
- Change the wording inside the `<h1>` tag in the Javascript.
- Add `<button>Click Me</button>` after the closing `</h1>`.

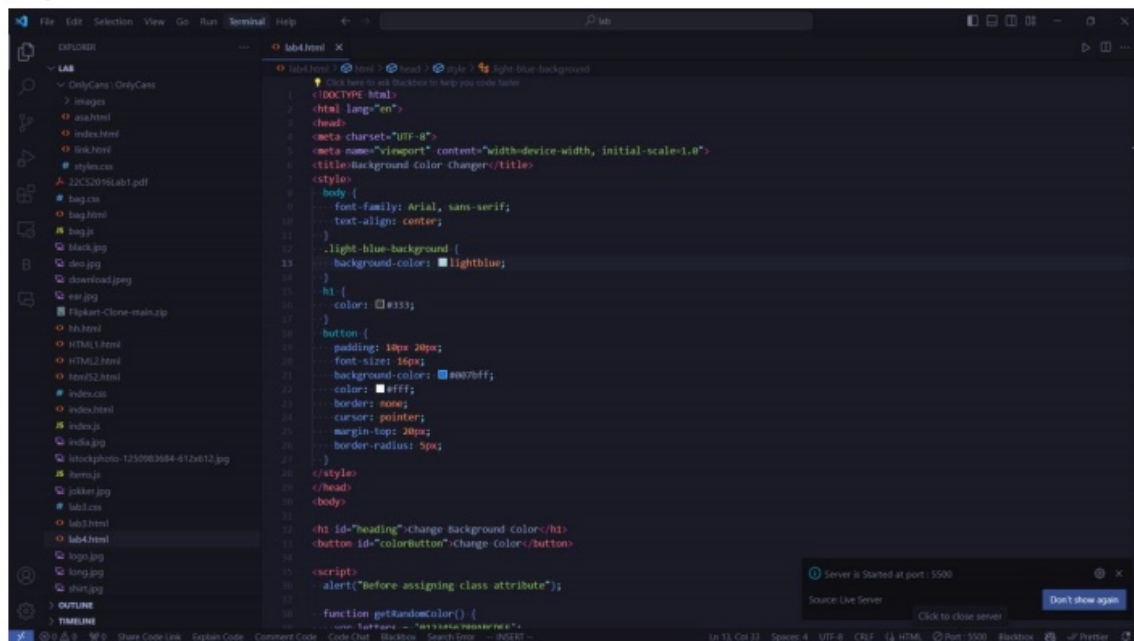
Ans.-

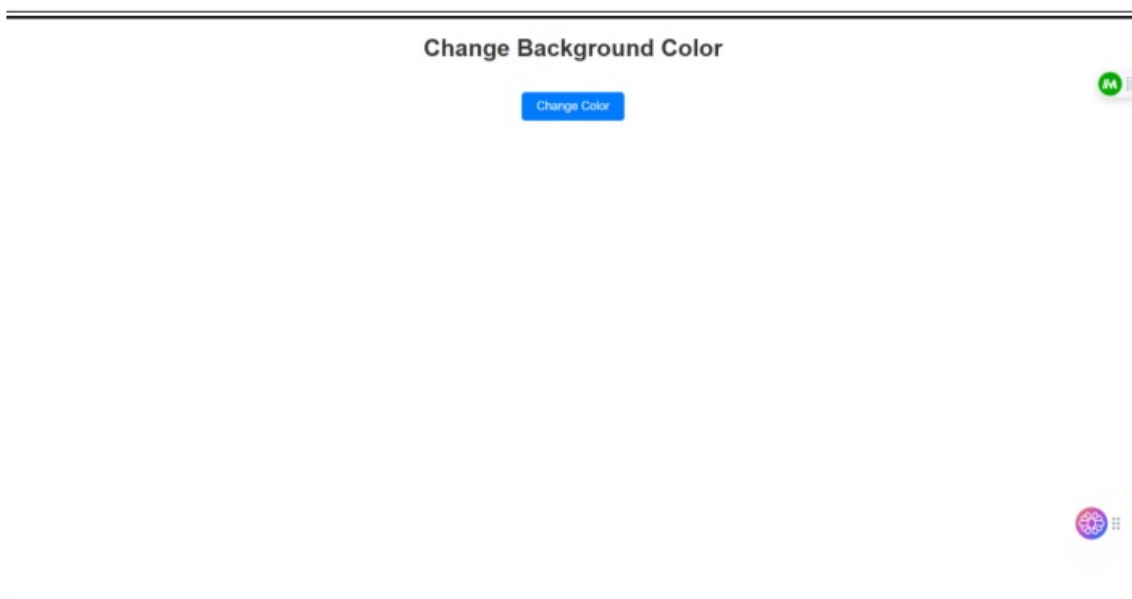




T3. For T1, set the color of the background directly with the class attribute. Generate alerts before and after assigning the class attribute to document object.

Ans.-





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.

Ans.-

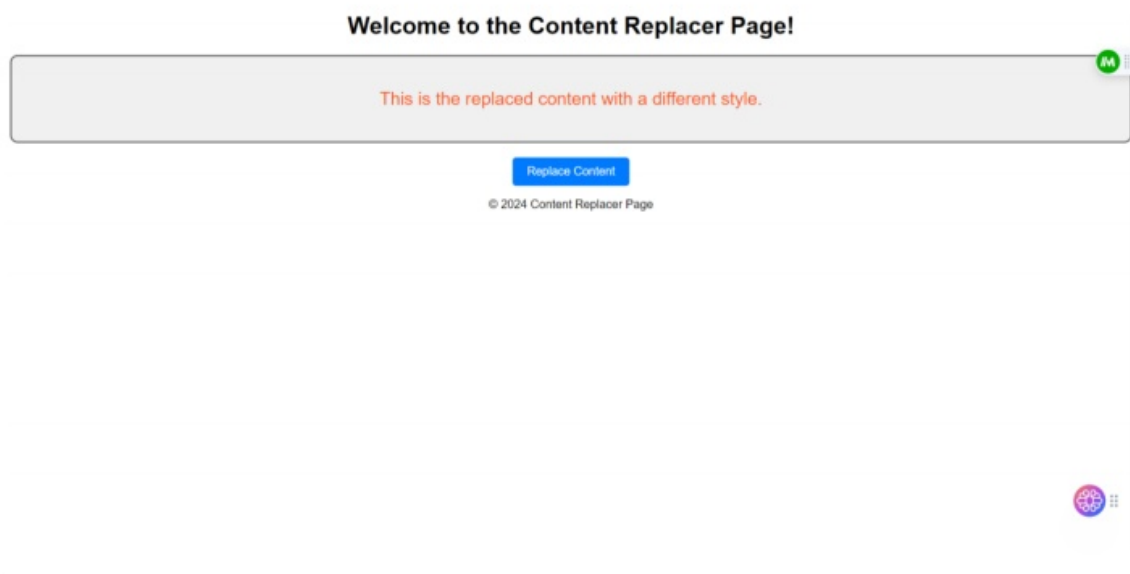
Welcome to the Content Replacer Page!

This is the initial content of the main section.

Click the button below to replace it with another content.

Replace Content

© 2024 Content Replacer Page



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.

Ans.-

```

1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  <meta charset="UTF-8">
5  <meta name="viewport" content="width=device-width, initial-scale=1.0">
6  <title>Change H1 Color</title>
7  <style>
8  body {
9    font-family: Arial, sans-serif;
10   text-align: center;
11   background-color: #e0e0e0;
12 }
13 main {
14   padding: 20px;
15   margin: 20px auto;
16   border: 2px solid #333;
17   border-radius: 10px;
18   background-color: #fff;
19 }
20 h1 {
21   margin-top: 20px;
22 }
23 </style>
24 </head>
25 <body>
26
27 <h1 id="h1Heading">Heading Outside Main/h1</h1>
28
29 <h2 id="mainHeading">Main Heading/h2</h2>
30
31 </main>
32
33 <button onclick="changeColorInline()">Change Color (Inline Style)</button>
34 <button onclick="changeColorClass()">Change Color (Class)</button>
35 <button onclick="changeColorJavascript()">Change Color (Javascript)</button>
36
37 <script>
38 function changeColorInline() {
39   var h1Heading = document.getElementById("h1Heading");
40   h1Heading.style.color = "red";
41 }
42
43 function changeColorClass() {
44   var h1Heading = document.getElementById("h1Heading");
45   h1Heading.className = "color-red";
46 }
47
48 function changeColorJavascript() {
49   var h1Heading = document.getElementById("h1Heading");
50   h1Heading.style.color = "blue";
51 }
52 </script>
53 </body>
54 </html>

```

Heading Outside Main


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Main Heading

Change Color (Inline Style)

Change Color (Class)

Change Color (JavaScript)



Heading Outside Main


84

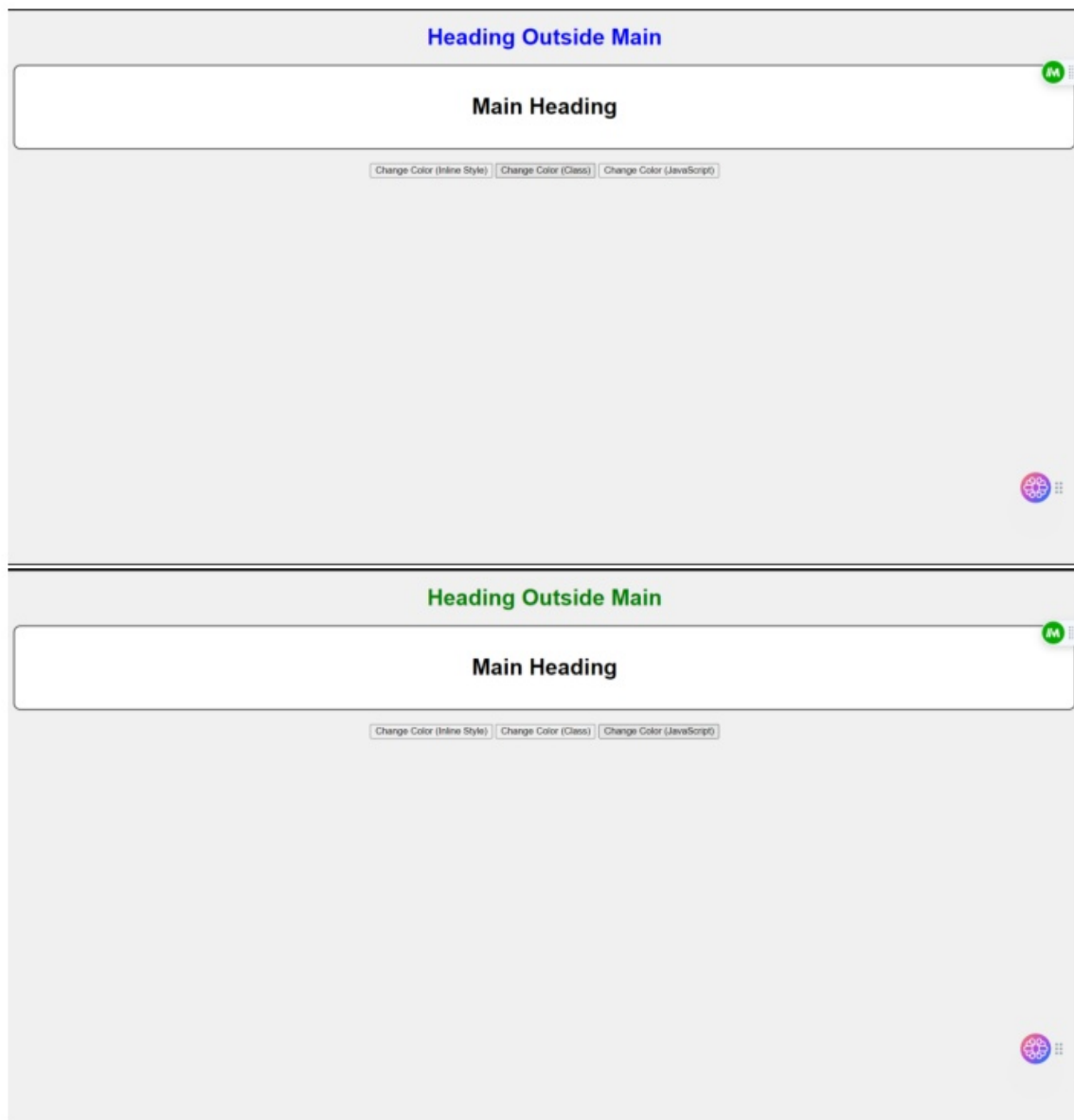
Main Heading

Change Color (Inline Style)

Change Color (Class)

Change Color (JavaScript)





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.