

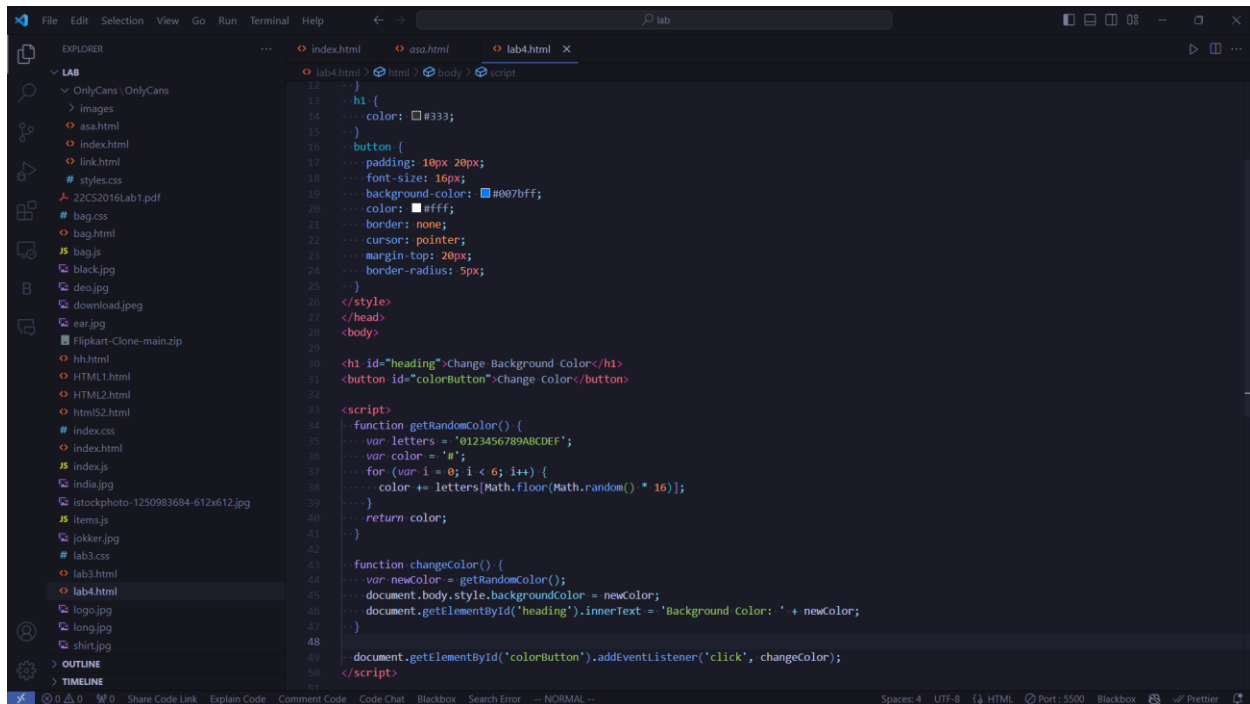
# Lab-4

## Bharath Gaddam

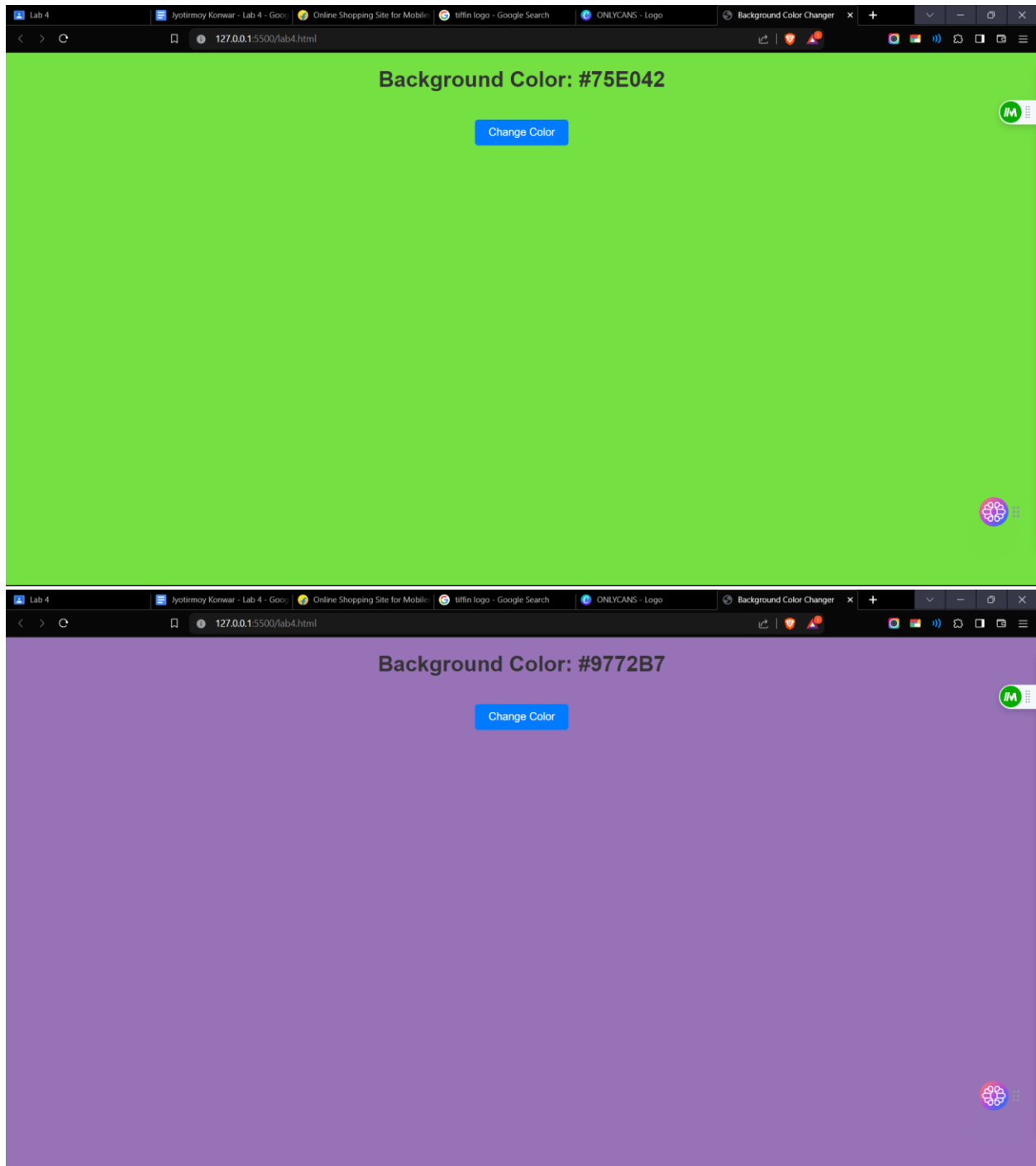
### 22CS2013

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.-



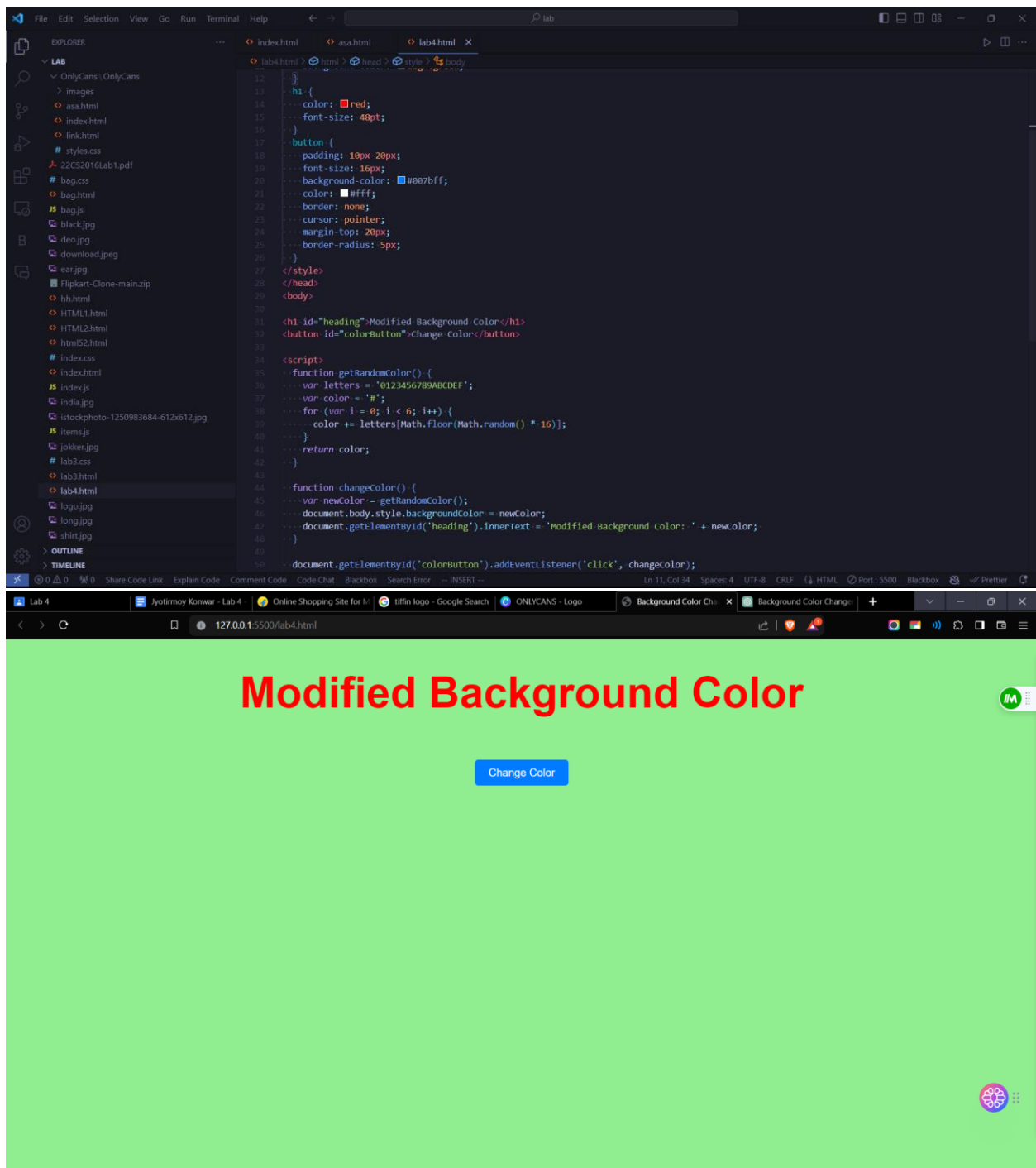
```
12. </script>
13. <h1 {
14.   color: #333;
15. }
16. <button {
17.   padding: 10px 20px;
18.   font-size: 16px;
19.   background-color: #007bff;
20.   color: #fff;
21.   border: none;
22.   cursor: pointer;
23.   margin-top: 20px;
24.   border-radius: 5px;
25. }
26. </style>
27. </head>
28. <body>
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.
49.   document.getElementById("colorButton").addEventListener("click", changeColor);
50. </script>
```

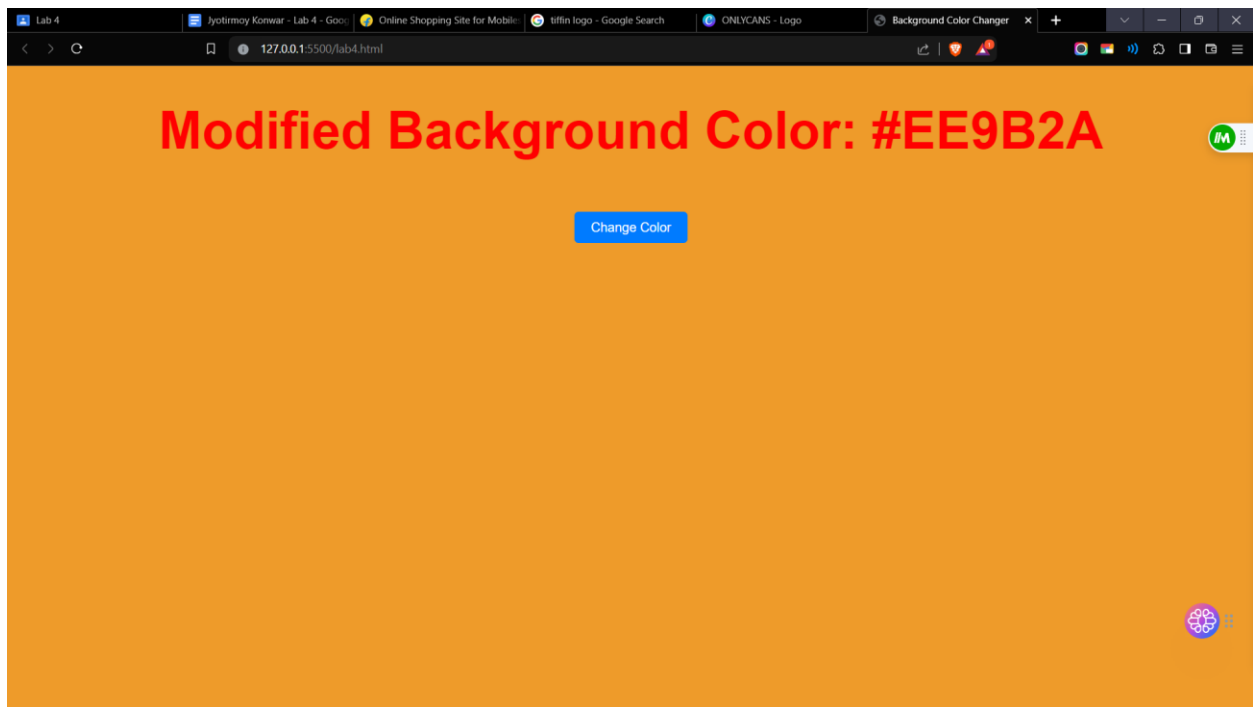


T2. For T1, experiment with the Javascript code by trying the following things:

- 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>`.

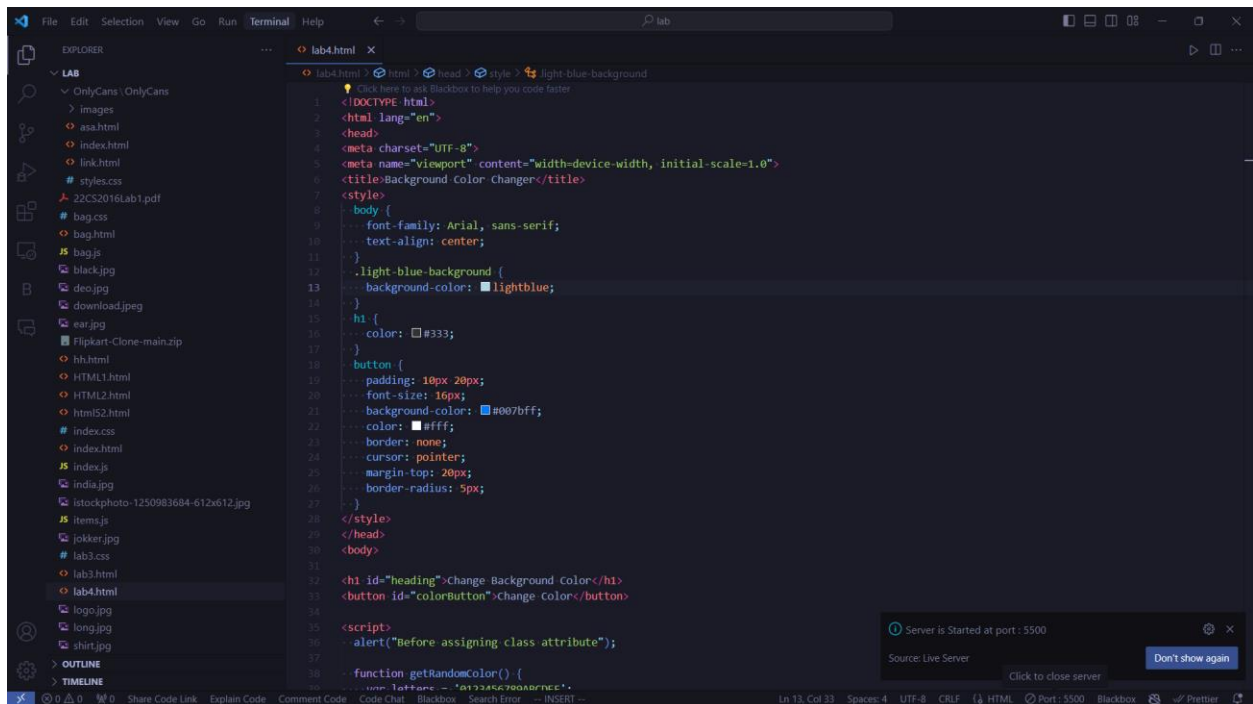
Ans.-

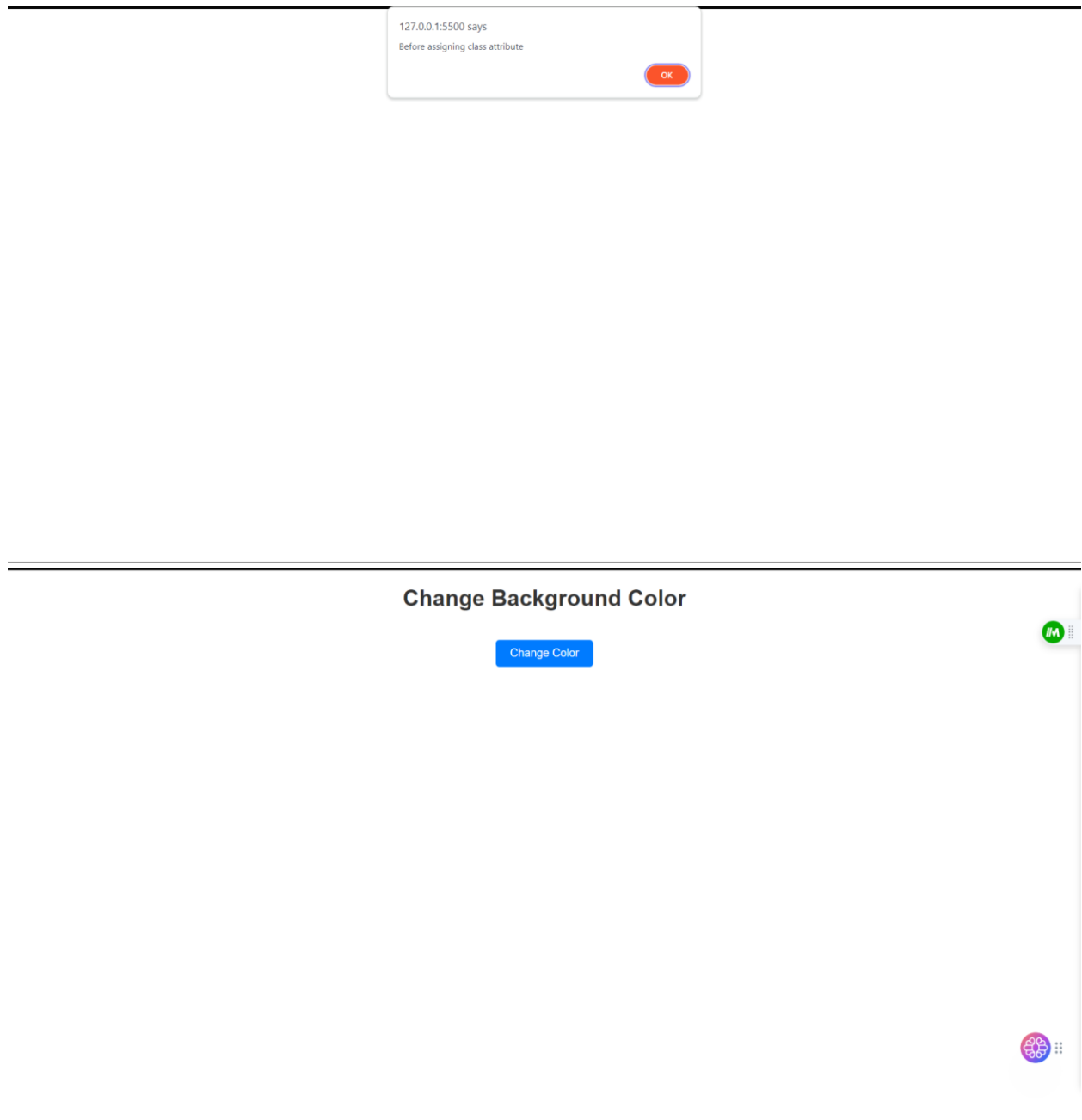




T3. For T1, set the color of the background directly with the class attribute. Generate alerts before and after assigning the class attribute to document object.

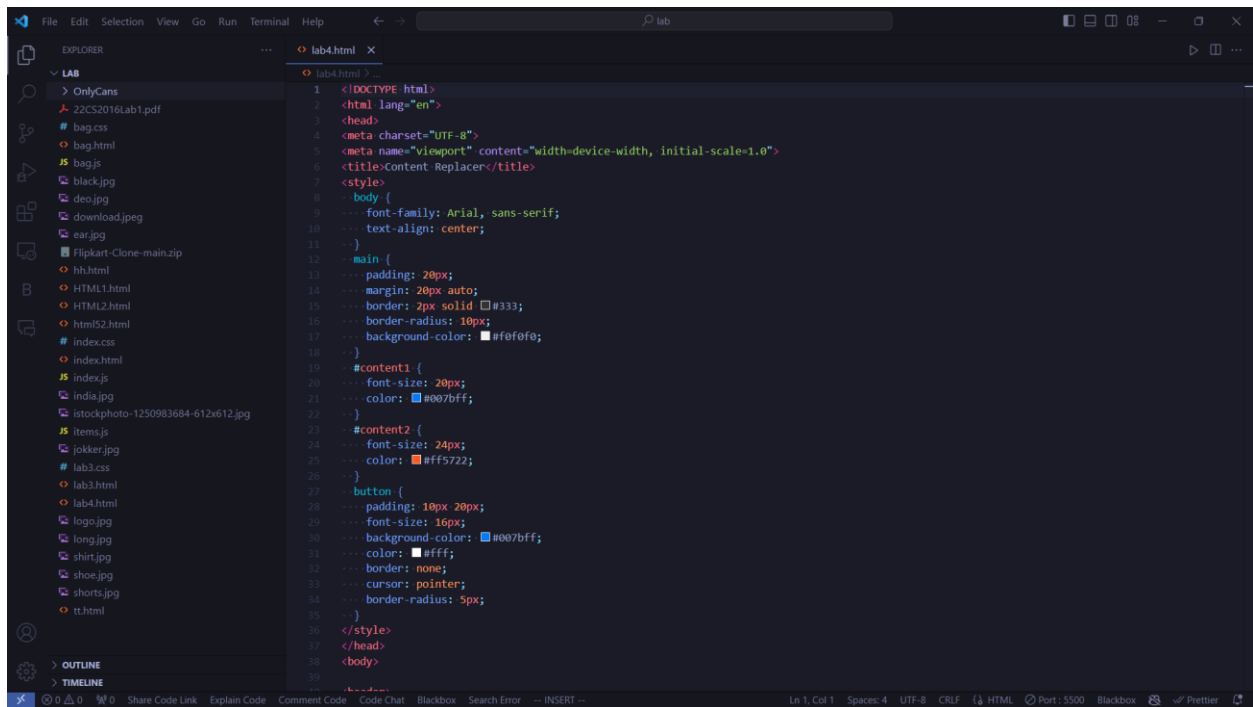
Ans.-





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.-



```
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>Content Replacer</title>
7 <style>
8   body {
9     font-family: Arial, sans-serif;
10    text-align: center;
11  }
12  main {
13    padding: 20px;
14    margin: 20px auto;
15    border: 2px solid #333;
16    border-radius: 10px;
17    background-color: #f0f0f0;
18  }
19  #content1 {
20    font-size: 20px;
21    color: #007bff;
22  }
23  #content2 {
24    font-size: 24px;
25    color: #ff5722;
26  }
27  button {
28    padding: 10px 20px;
29    font-size: 16px;
30    background-color: #007bff;
31    color: #fff;
32    border: none;
33    cursor: pointer;
34    border-radius: 5px;
35  }
36 </style>
37 </head>
38 <body>
39
```

## 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

## Welcome to the Content Replacer Page!

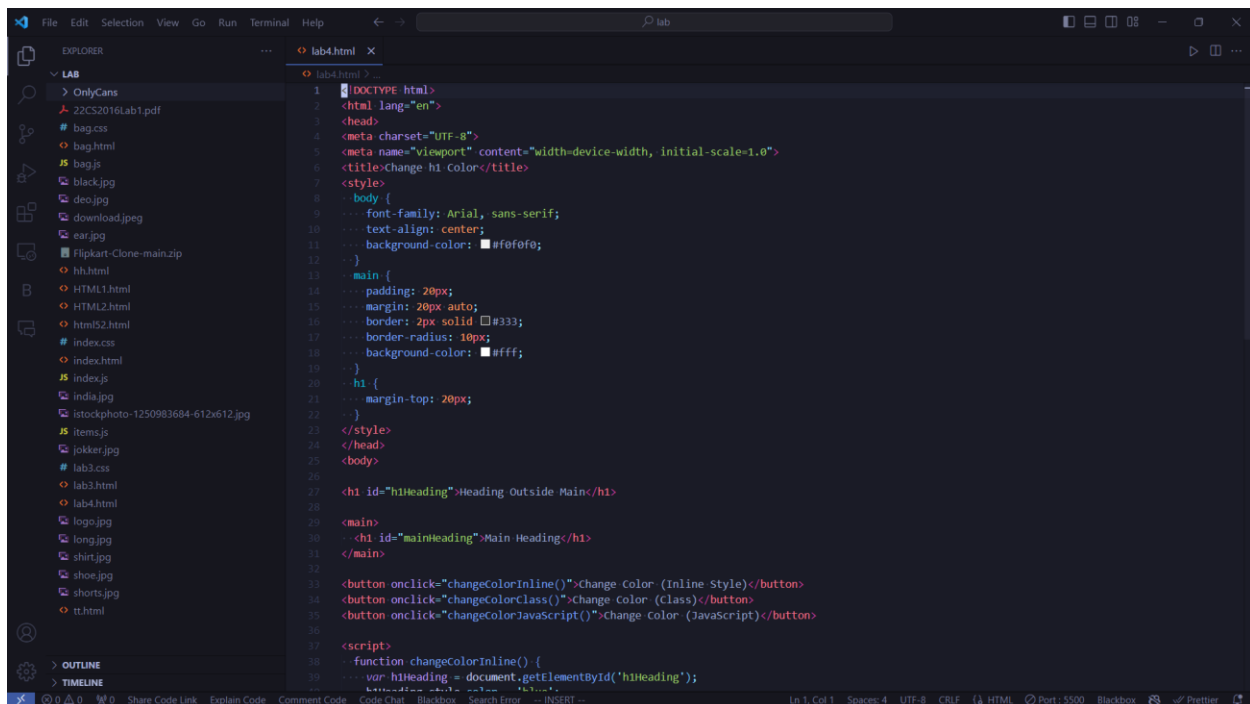
This is the replaced content with a different style.

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: #f0f0f0;
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>
28
29 <main>
30 <h1 id="mainHeading">Main Heading</h1>
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');
```

Heading Outside Main



Main Heading

Change Color (Inline Style) | Change Color (Class) | Change Color (JavaScript)



Heading Outside Main

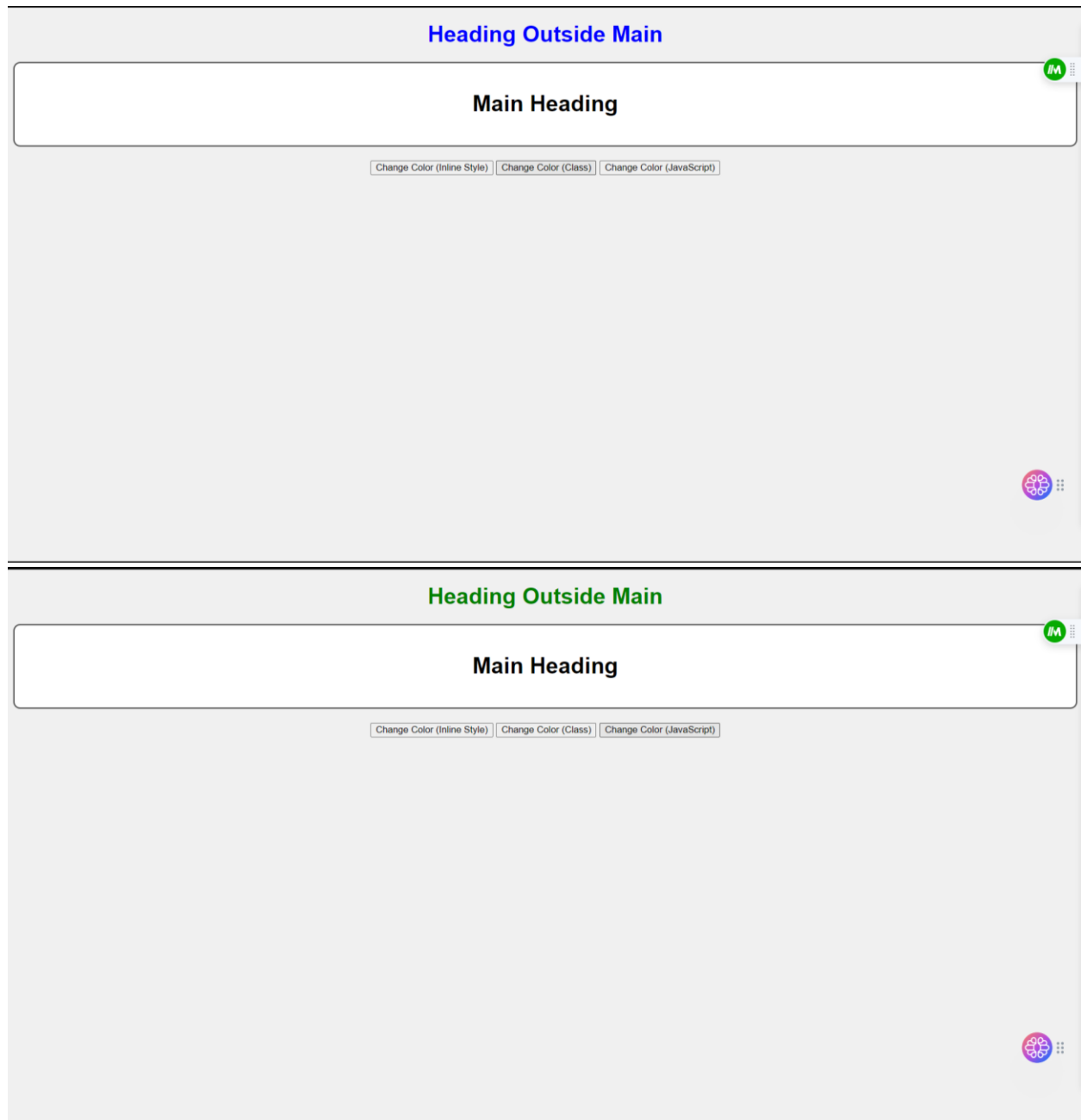


Main Heading

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.