

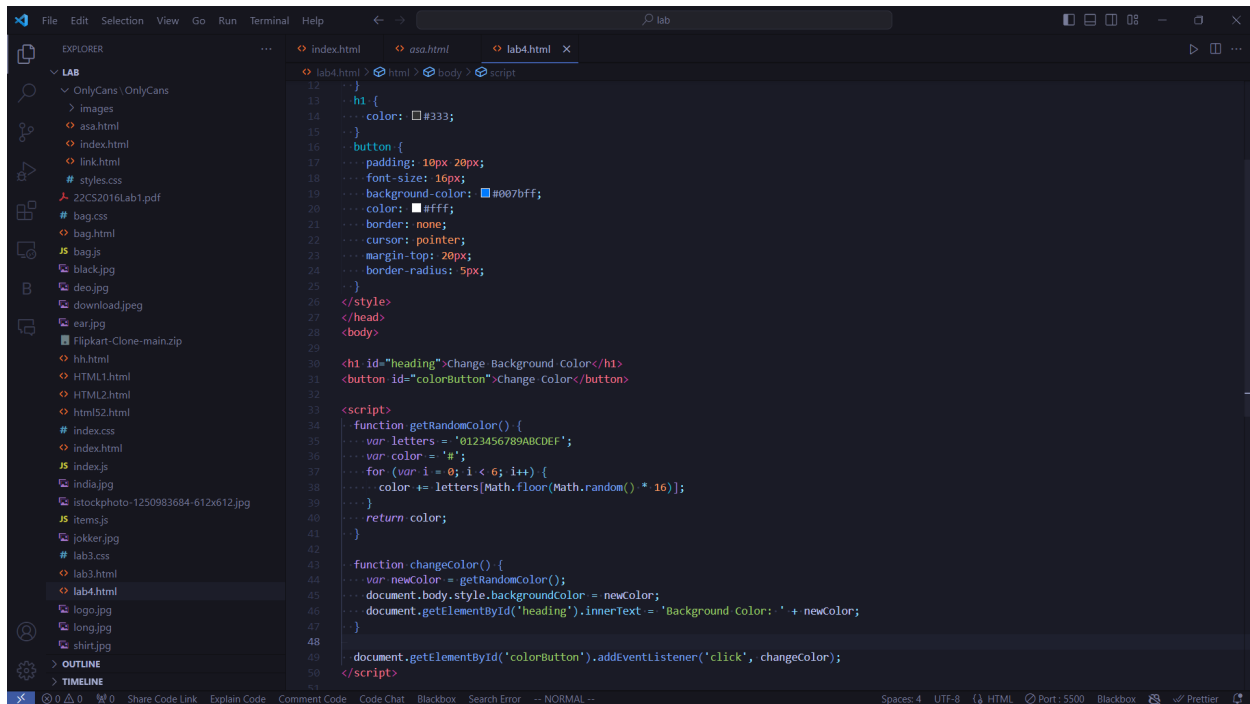
Lab-4

Nivisht Gola

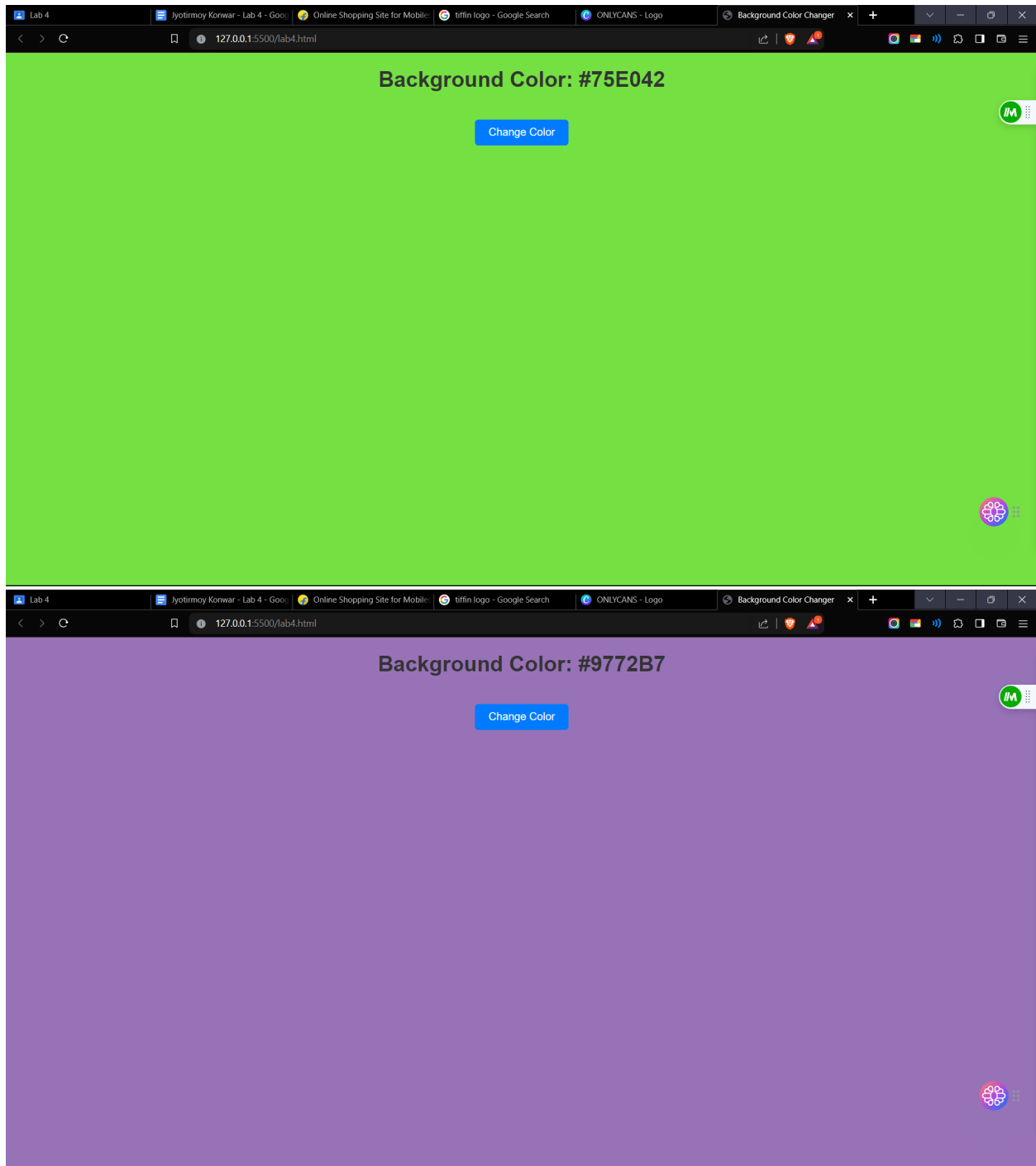
22CS2004

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.-



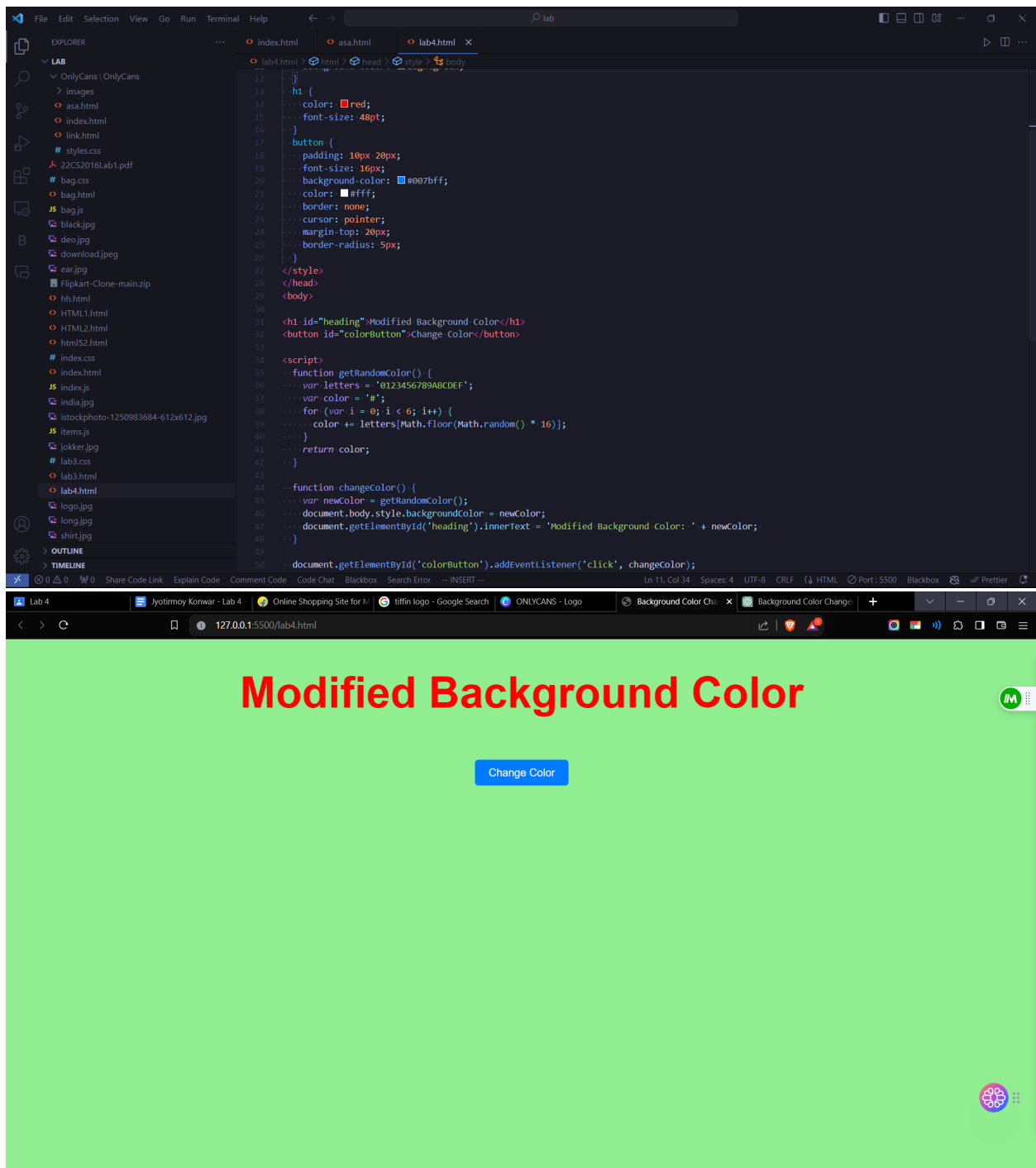
```
12  }
13  h1 {
14    color: #333;
15  }
16  button {
17    padding: 10px 20px;
18    font-size: 16px;
19    background-color: #007bff;
20    color: #fff;
21    border: none;
22    cursor: pointer;
23    margin-top: 20px;
24    border-radius: 5px;
25  }
26  </style>
27  </head>
28  <body>
29
30  <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>
```

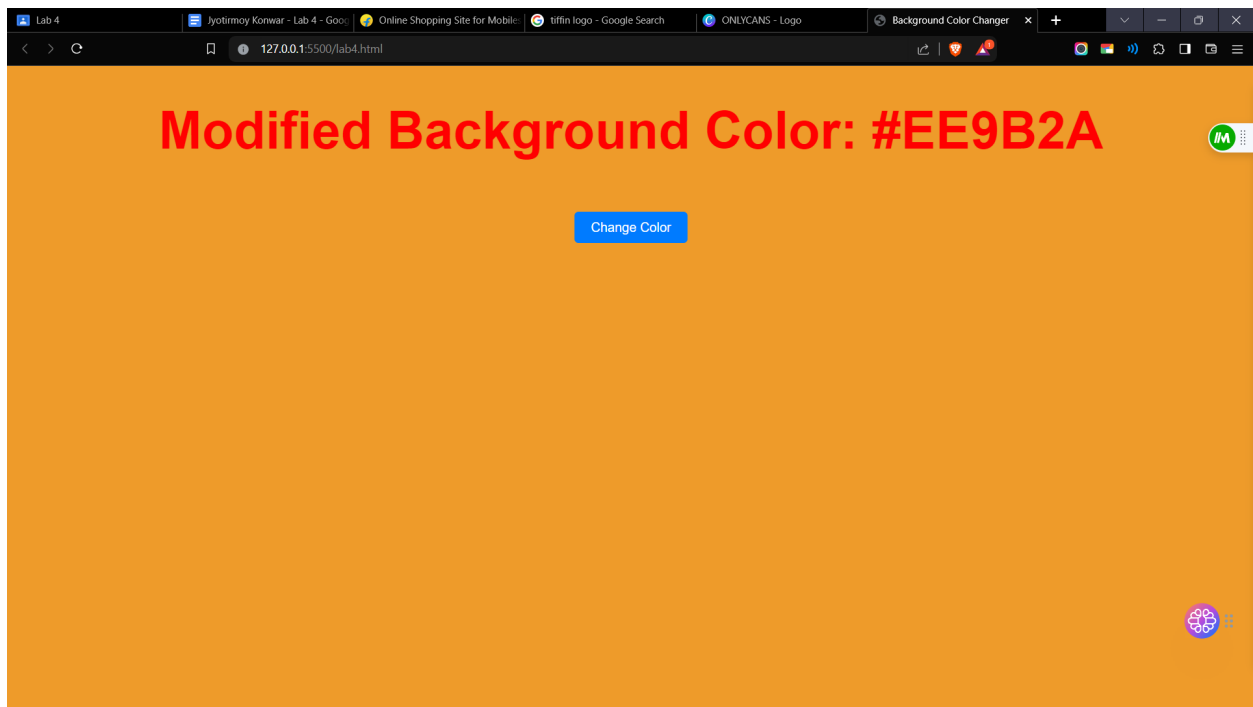


T2. For T1, experiment with the Javascript code by trying the following things:

- 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>.

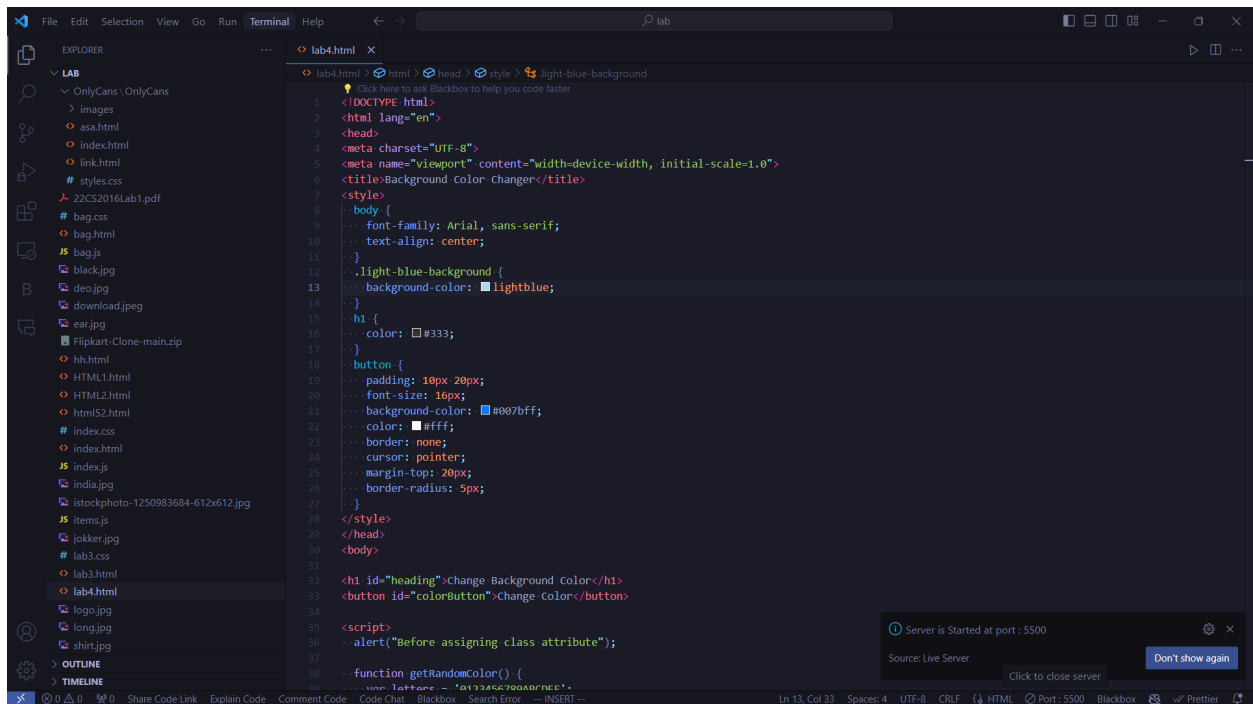
Ans.-





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.-



127.0.0.1:5500 says
Before assigning class attribute

OK

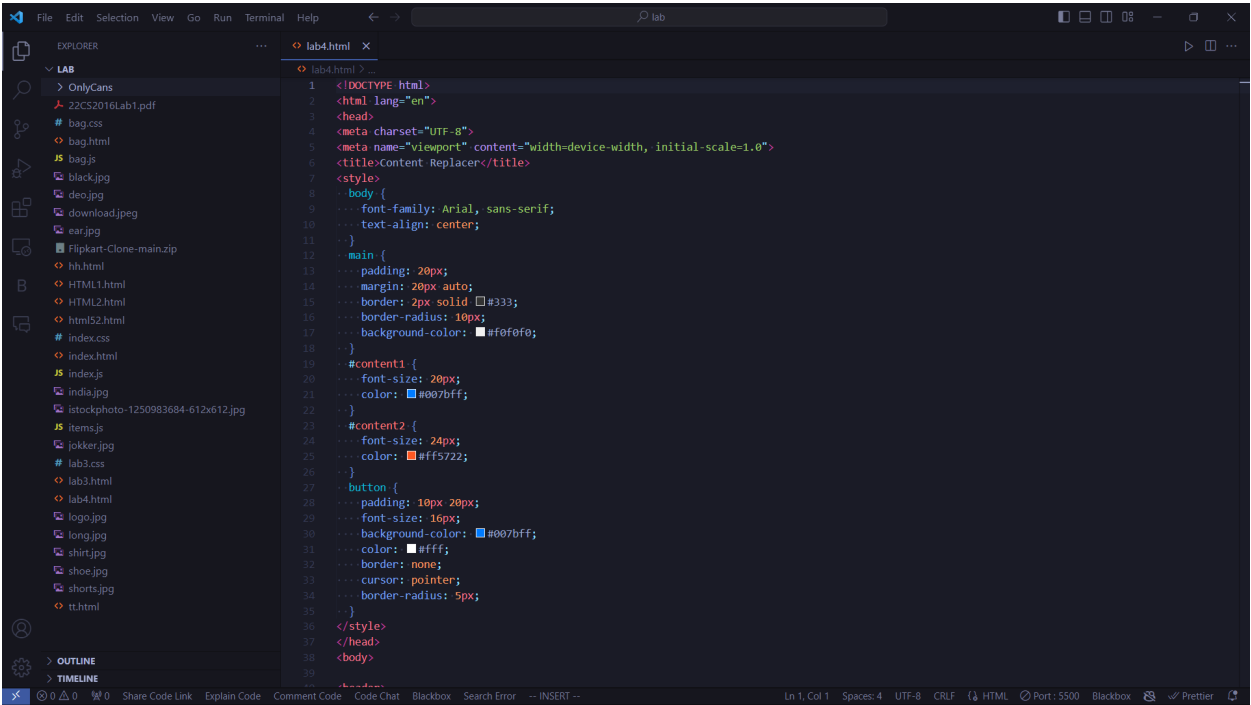
Change Background Color

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.

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



Welcome to the Content Replacer Page!

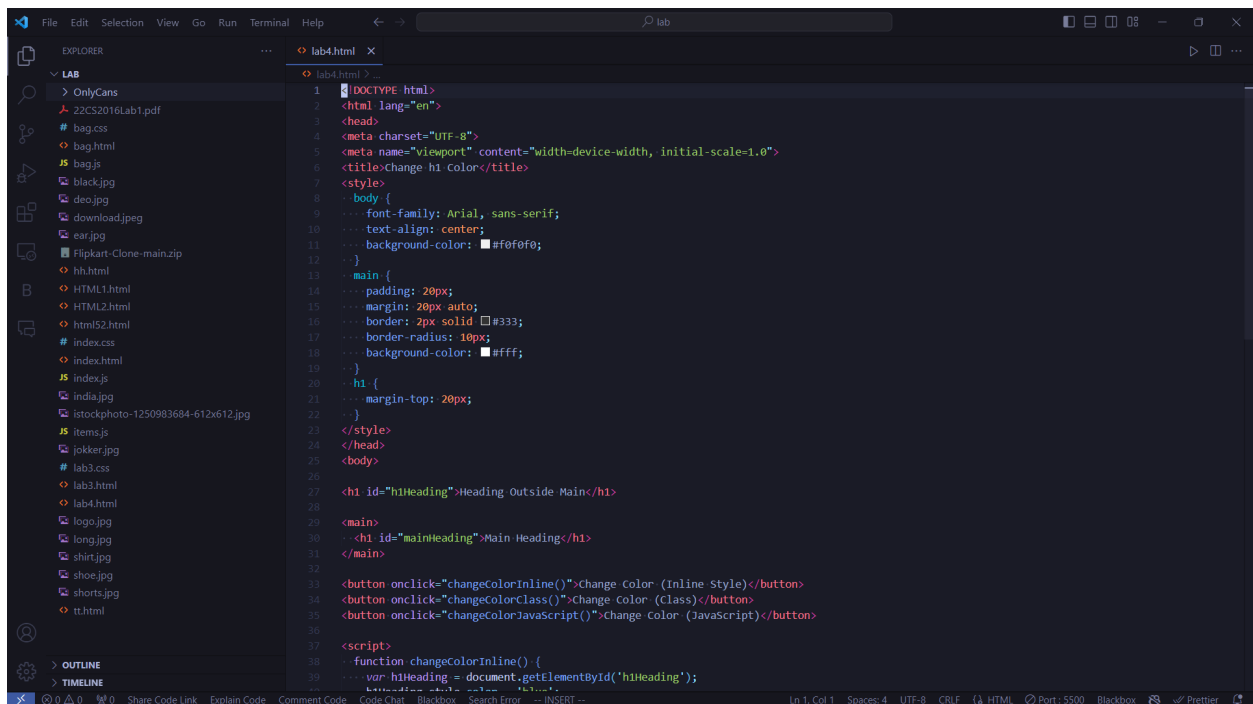
This is the replaced content with a different style.

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)



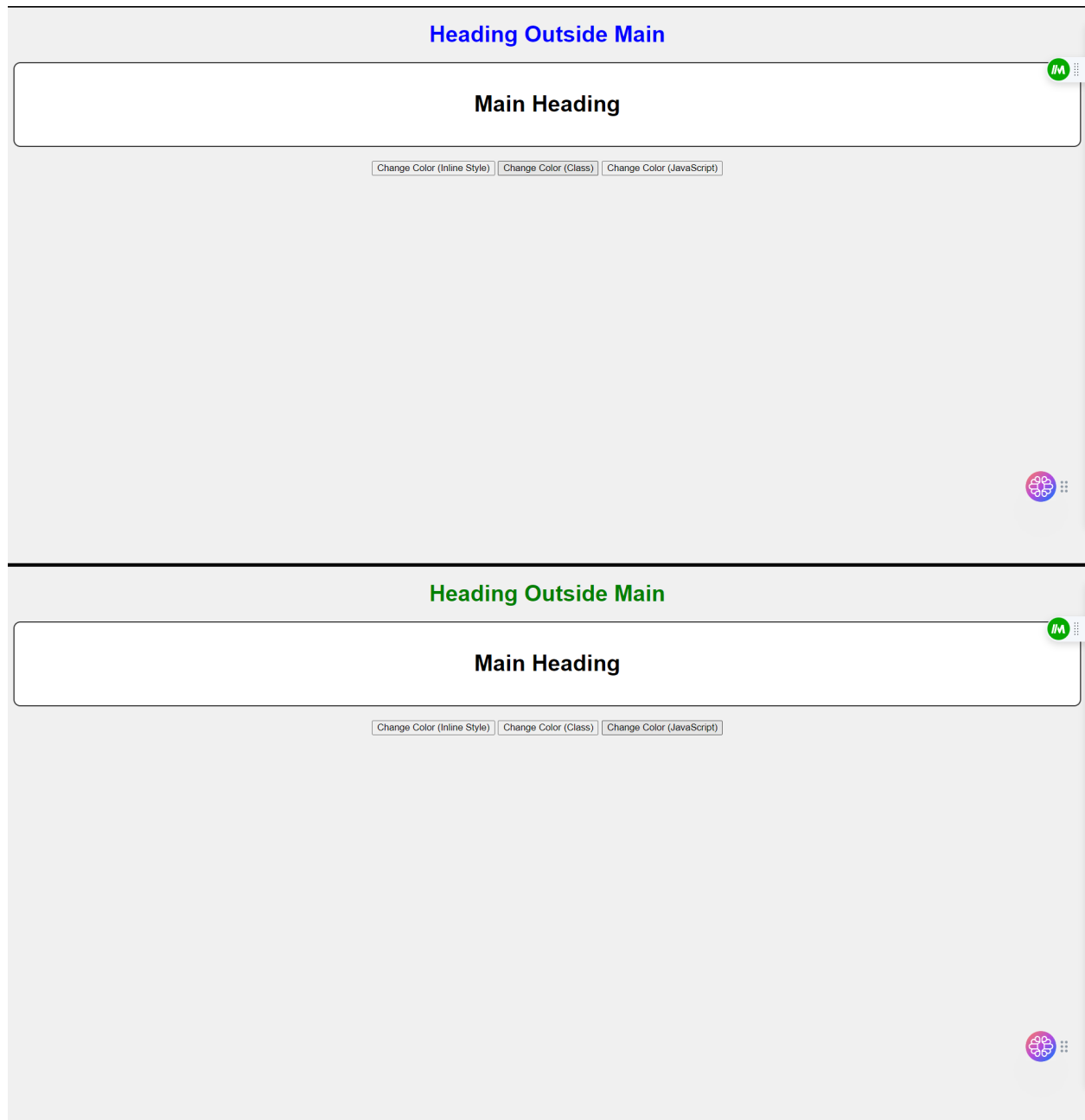
Heading Outside Main



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.