

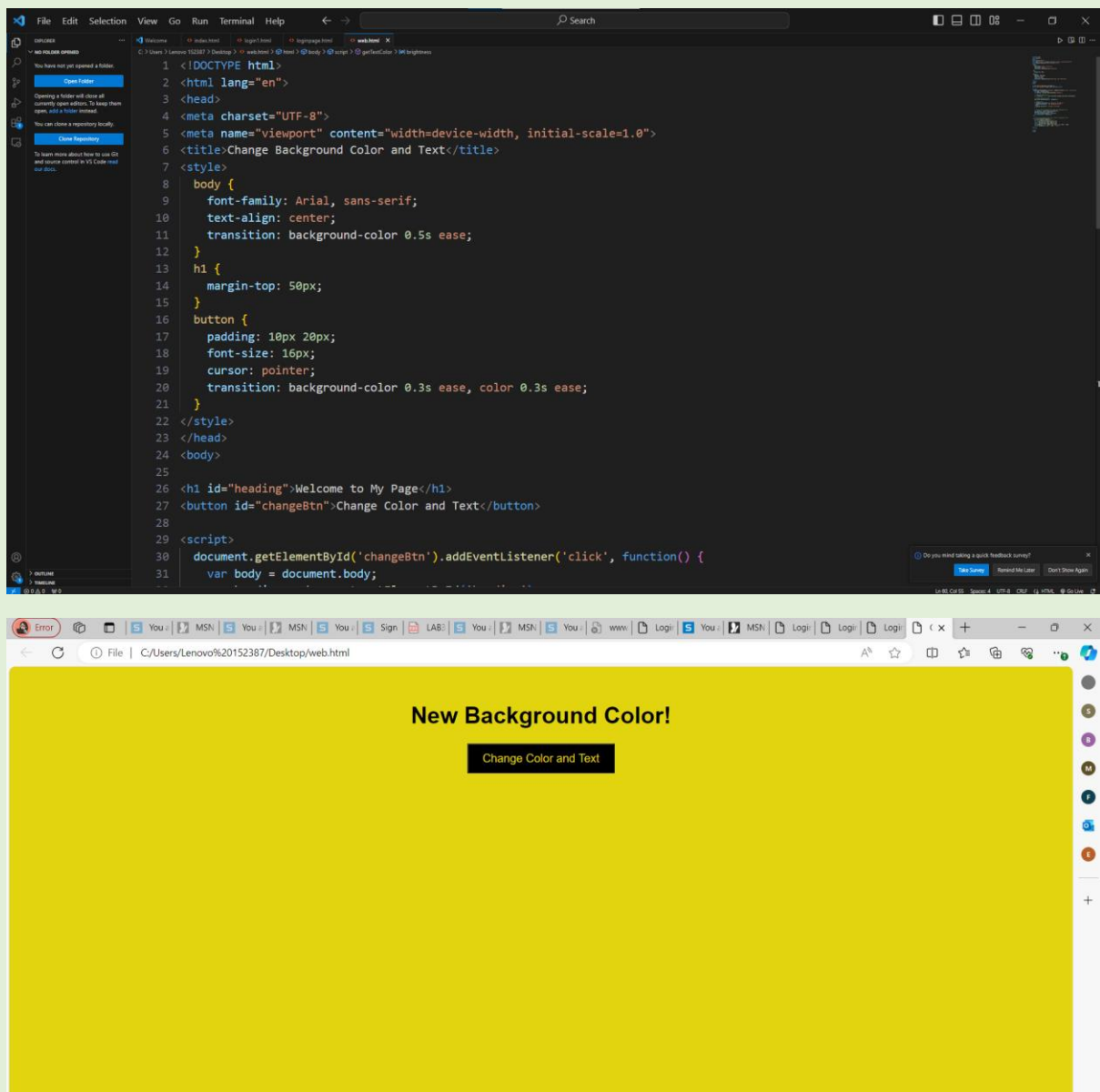
# Lab-4 Web Technology

Name-Ishika Pandey

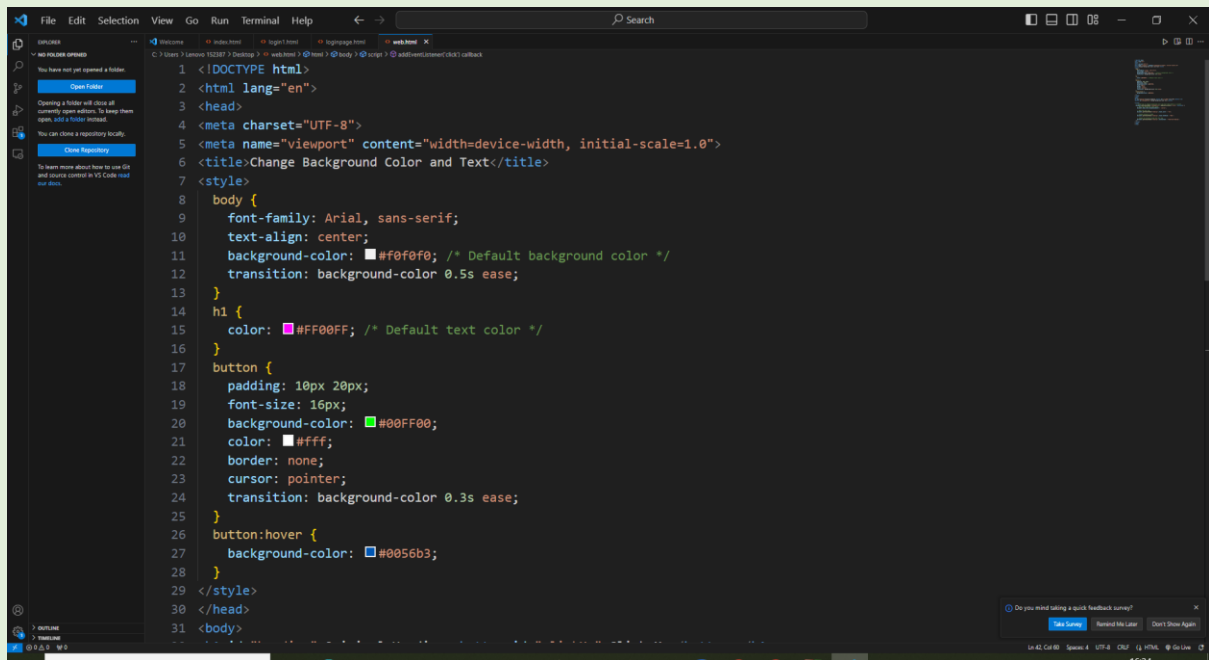
Branch-CSE

Roll no-22cs3029

1.

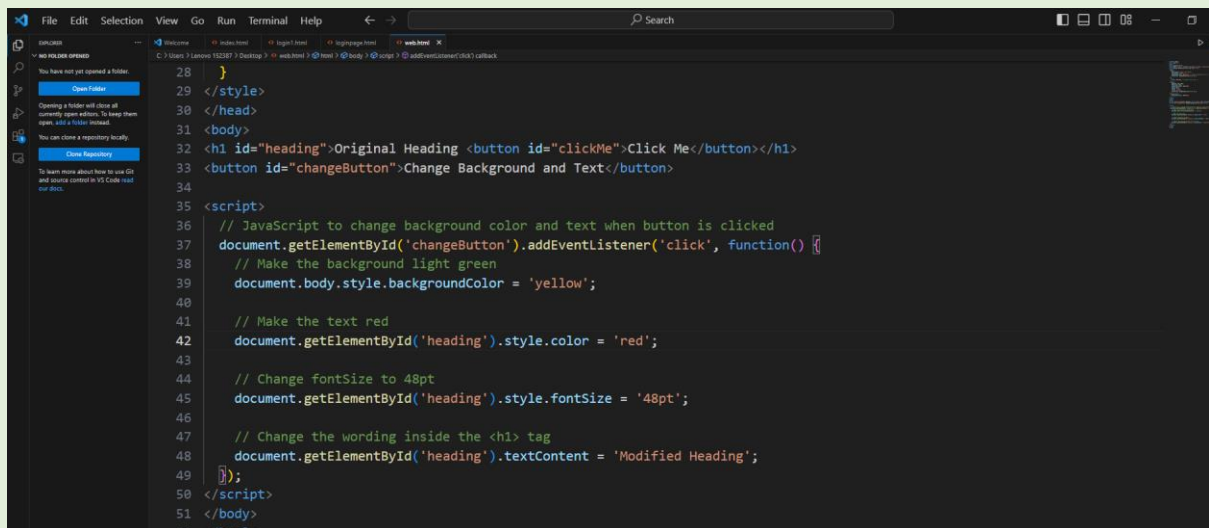


2.



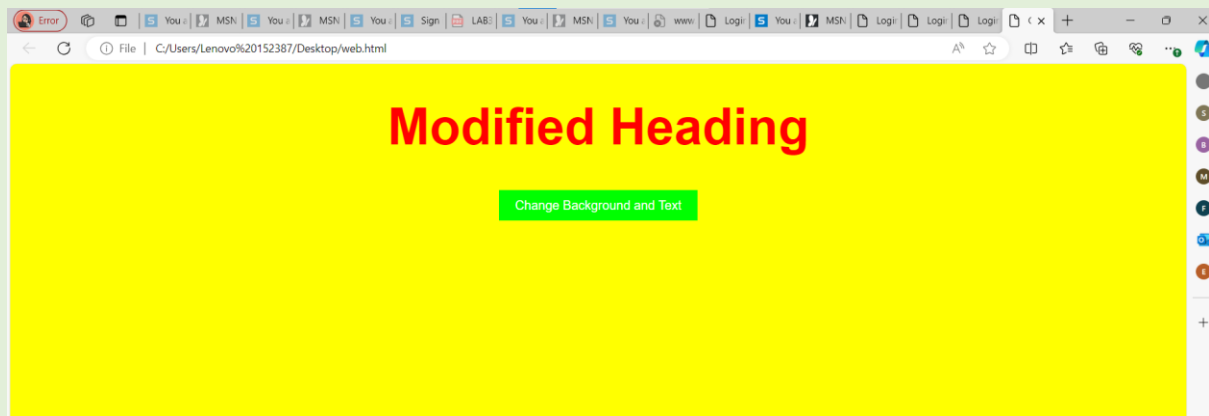
The screenshot shows the Visual Studio Code editor with a file named 'web.html' open. The code is as follows:

```
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 Background Color and Text</title>
7 <style>
8   body {
9     font-family: Arial, sans-serif;
10    text-align: center;
11    background-color: #f0f0f0; /* Default background color */
12    transition: background-color 0.5s ease;
13  }
14  h1 {
15    color: #FF00FF; /* Default text color */
16  }
17  button {
18    padding: 10px 20px;
19    font-size: 16px;
20    background-color: #00FF00;
21    color: #fff;
22    border: none;
23    cursor: pointer;
24    transition: background-color 0.3s ease;
25  }
26  button:hover {
27    background-color: #0056b3;
28  }
29 </style>
30 </head>
31 <body>
```

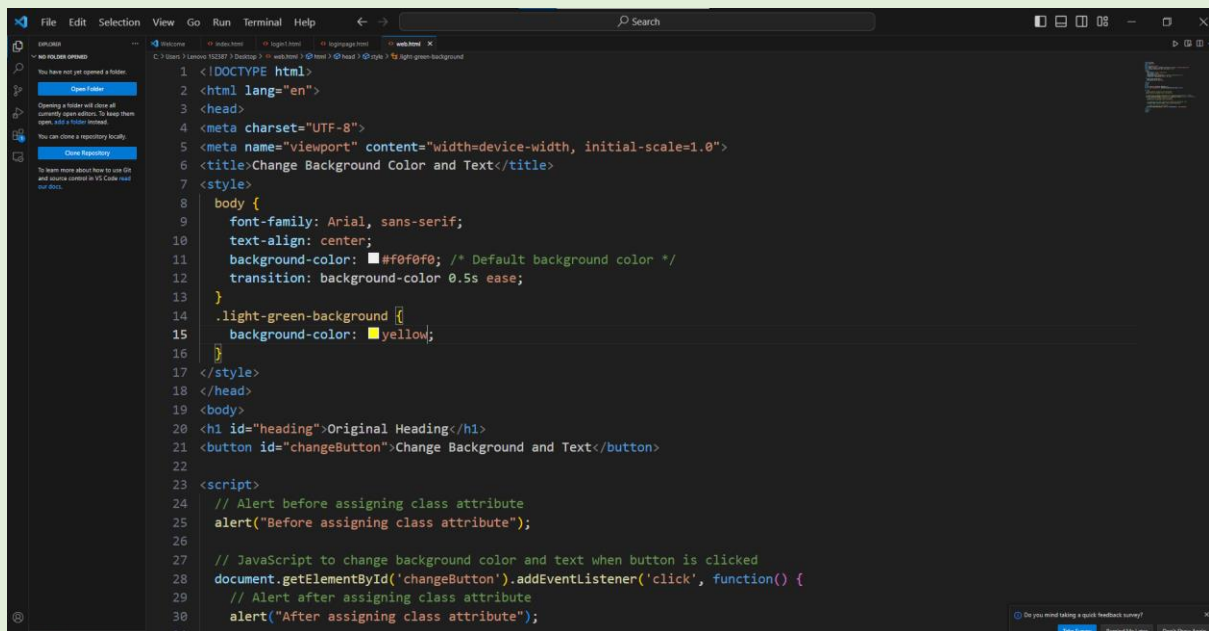


The screenshot shows the Visual Studio Code editor with the same file 'web.html' open. The code is as follows:

```
28 }
29 </style>
30 </head>
31 <body>
32 <h1 id="heading">Original Heading <button id="clickMe">Click Me</button></h1>
33 <button id="changeButton">Change Background and Text</button>
34
35 <script>
36   // JavaScript to change background color and text when button is clicked
37   document.getElementById('changeButton').addEventListener('click', function() {
38     // Make the background light green
39     document.body.style.backgroundColor = 'yellow';
40
41     // Make the text red
42     document.getElementById('heading').style.color = 'red';
43
44     // Change fontSize to 48pt
45     document.getElementById('heading').style.fontSize = '48pt';
46
47     // Change the wording inside the <h1> tag
48     document.getElementById('heading').textContent = 'Modified Heading';
49   });
50 </script>
51 </body>
52 </html>
```

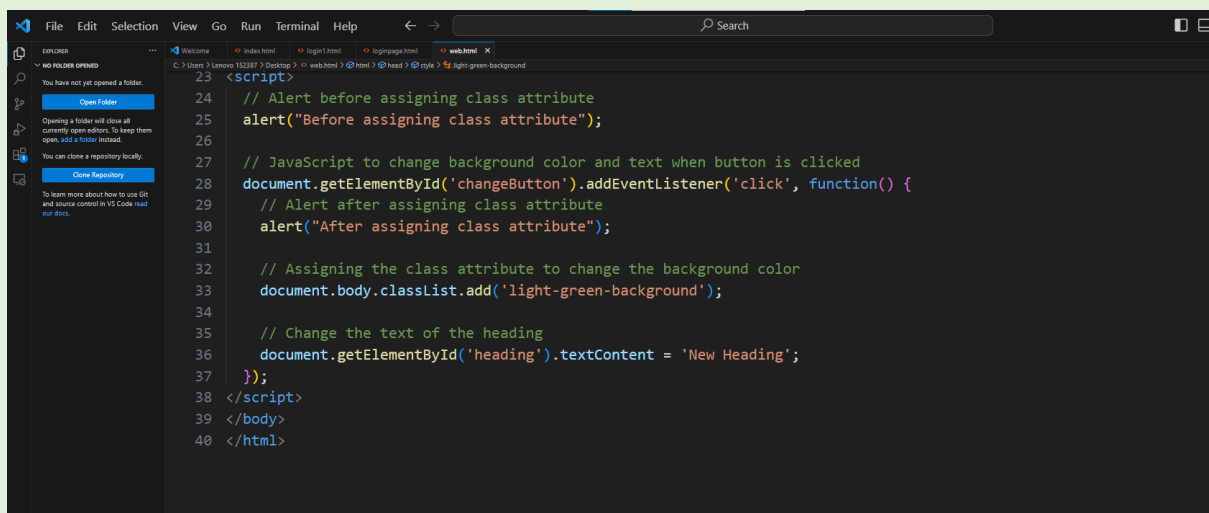


3.



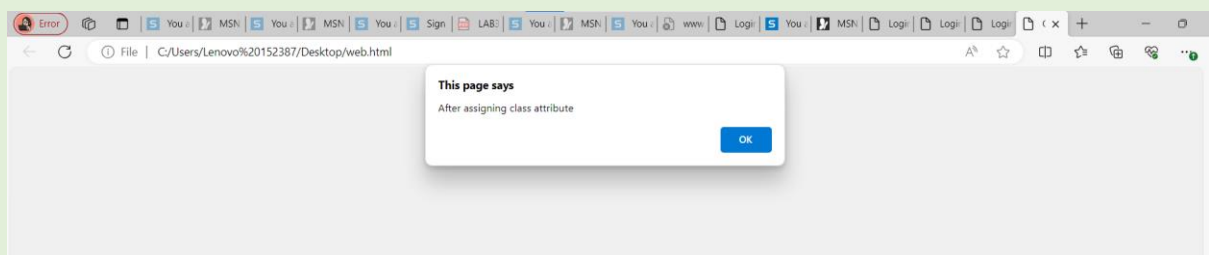
The screenshot shows the Visual Studio Code editor with a file named `web.html` open. The code is as follows:

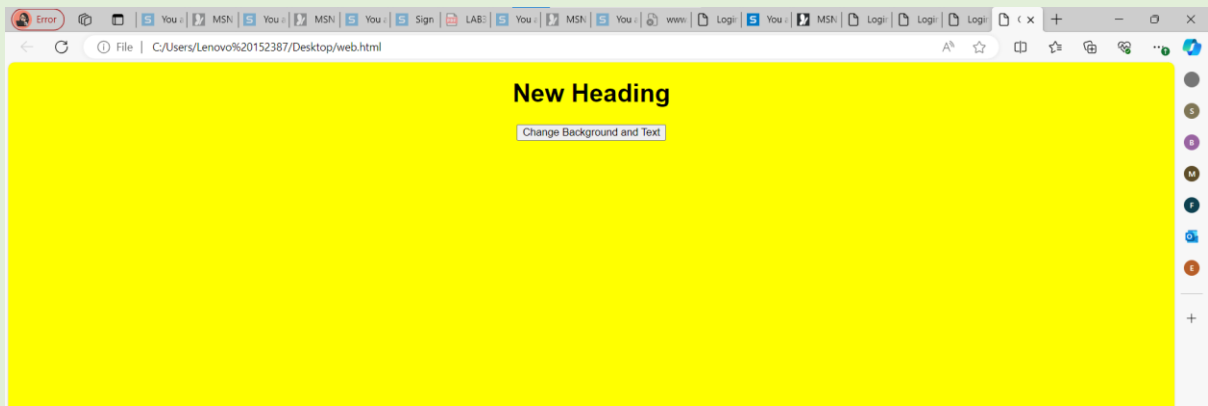
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Change Background Color and Text</title>
7 <style>
8   body {
9     font-family: Arial, sans-serif;
10    text-align: center;
11    background-color: #f0f0f0; /* Default background color */
12    transition: background-color 0.5s ease;
13  }
14  .light-green-background {
15    background-color: yellow;
16  }
17 </style>
18 </head>
19 <body>
20 <h1 id="heading">Original Heading</h1>
21 <button id="changeButton">Change Background and Text</button>
22
23 <script>
24   // Alert before assigning class attribute
25   alert("Before assigning class attribute");
26
27   // JavaScript to change background color and text when button is clicked
28   document.getElementById('changeButton').addEventListener('click', function() {
29     // Alert after assigning class attribute
30     alert("After assigning class attribute");
```



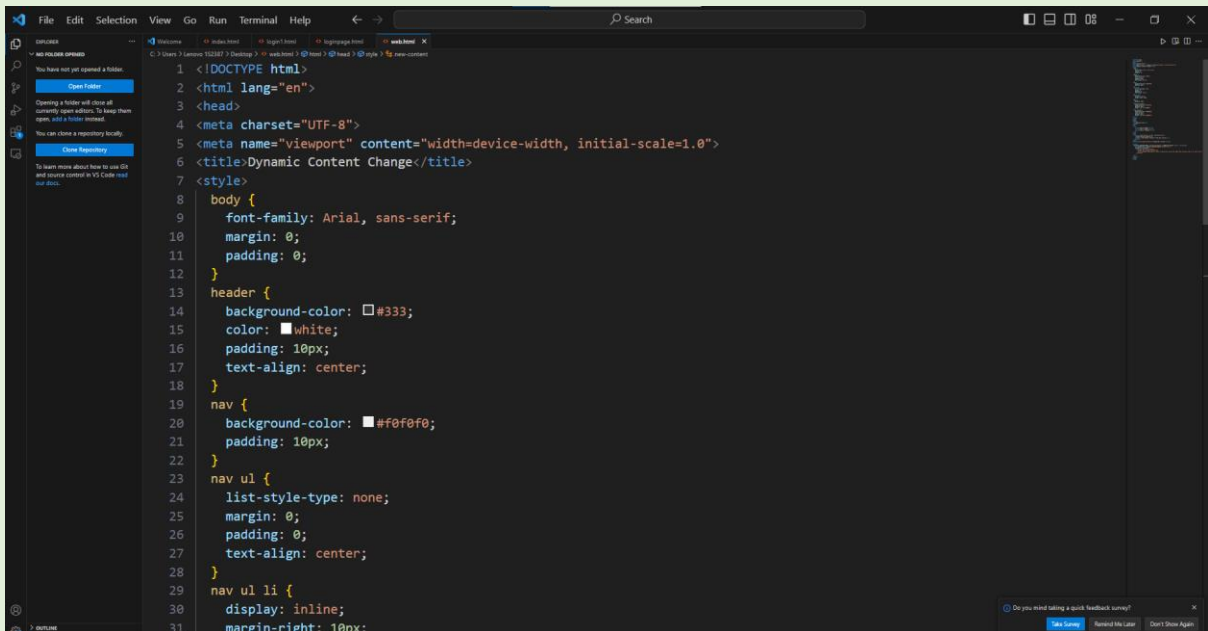
The screenshot shows the Visual Studio Code editor with the same file `web.html`. The code is updated as follows:

```
23 <script>
24   // Alert before assigning class attribute
25   alert("Before assigning class attribute");
26
27   // JavaScript to change background color and text when button is clicked
28   document.getElementById('changeButton').addEventListener('click', function() {
29     // Alert after assigning class attribute
30     alert("After assigning class attribute");
31
32     // Assigning the class attribute to change the background color
33     document.body.classList.add('light-green-background');
34
35     // Change the text of the heading
36     document.getElementById('heading').textContent = 'New Heading';
37   });
38 </script>
39 </body>
40 </html>
```



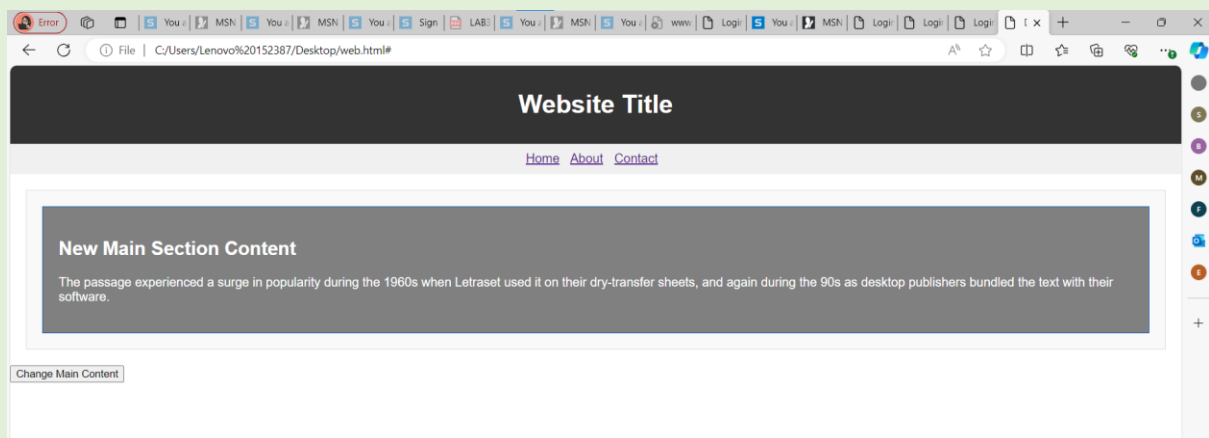


4.

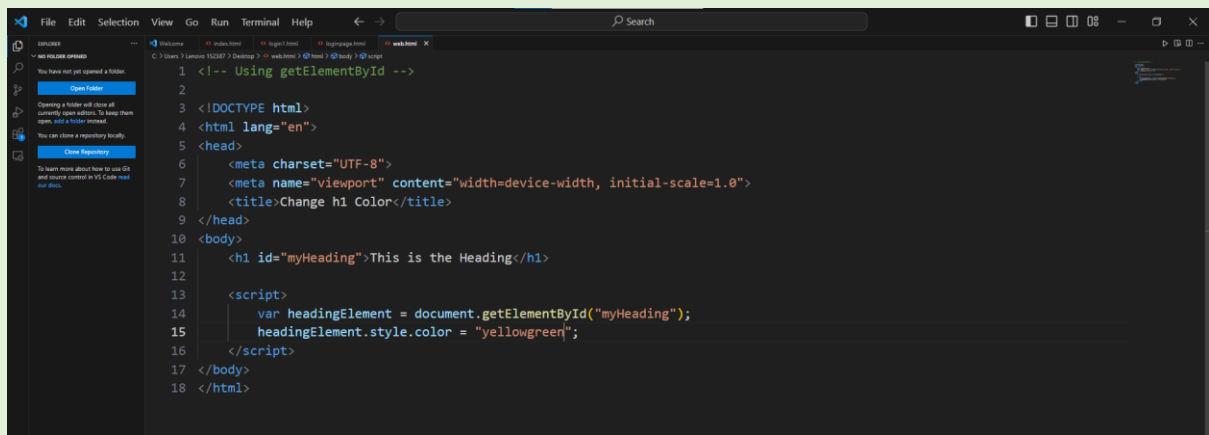


```
File Edit Selection View Go Run Terminal Help
C:\Users\Lenovo\OneDrive\Desktop\web.html
30 display: inline;
31 margin-right: 10px;
32 }
33 main {
34 padding: 20px;
35 }
36 .default-content {
37 background-color: #f9f9f9;
38 padding: 20px;
39 border: 1px solid #ddd;
40 }
41 .new-content {
42 background-color: #e0e0e0;
43 color: white;
44 padding: 20px;
45 border: 1px solid #0056b3;
46 }
47 </style>
48 </head>
49 <body>
50 <header>
51 <h1>Website Title</h1>
52 </header>
53 <nav>
54 <ul>
55 <li><a href="#">Home</a></li>
56 <li><a href="#">About</a></li>
57 <li><a href="#">Contact</a></li>
58 </ul>
59 </nav>
60 <main>
```

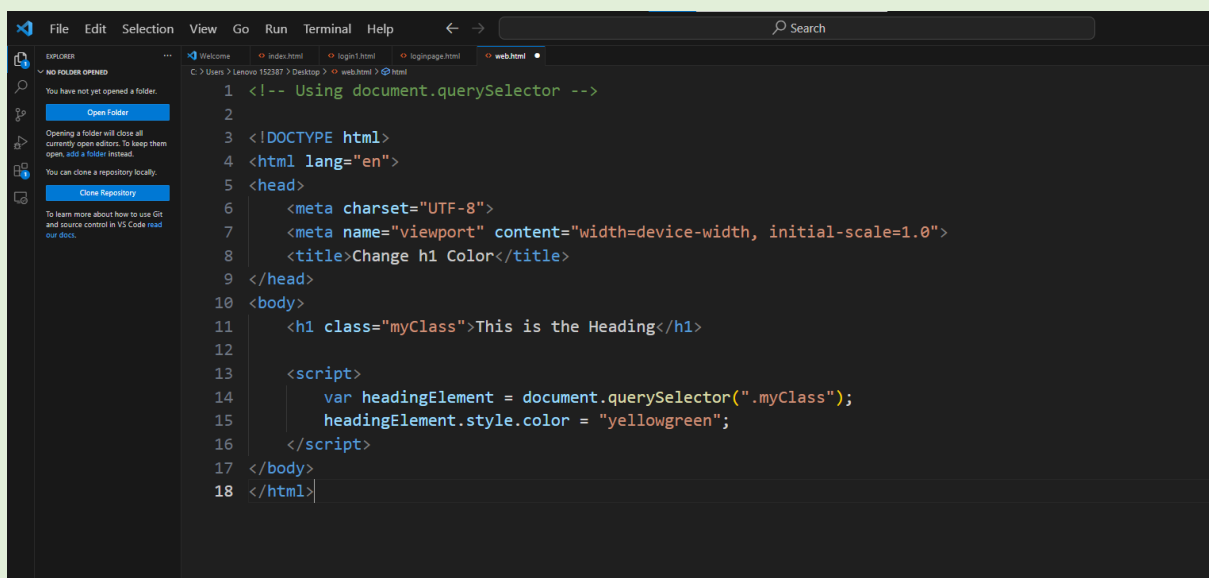
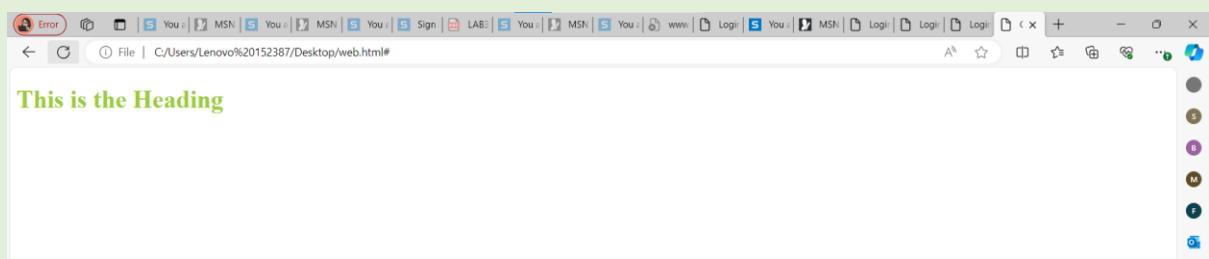
```
File Edit Selection View Go Run Terminal Help
C:\Users\Lenovo\OneDrive\Desktop\web.html
53 <nav>
54 <ul>
55 <li><a href="#">Home</a></li>
56 <li><a href="#">About</a></li>
57 <li><a href="#">Contact</a></li>
58 </ul>
59 </nav>
60 <main>
61 <section class="default-content" id="mainSection">
62 <h2>Main Section Content</h2>
63 <p>This is the default content of the main section.</p>
64 </section>
65 </main>
66 <button id="changeContentButton">Change Main Content</button>
67
68 <script>
69 document.getElementById('changeContentButton').addEventListener('click', function() {
70 var mainSection = document.getElementById('mainSection');
71 mainSection.innerHTML = `
72 <section class="new-content">
73 <h2>New Main Section Content</h2>
74 <p>The passage experienced a surge in popularity during the 1960s when Letraset used it on their dry-transfer sheets,
75 </section>
76 `;
77 });
78 </script>
79 </body>
80 </html>
```



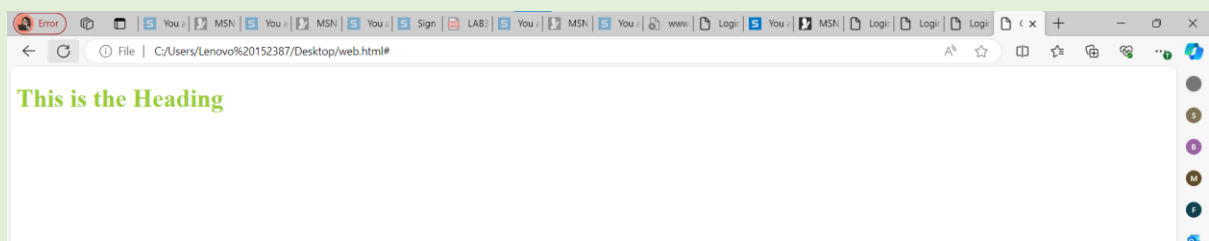
5.

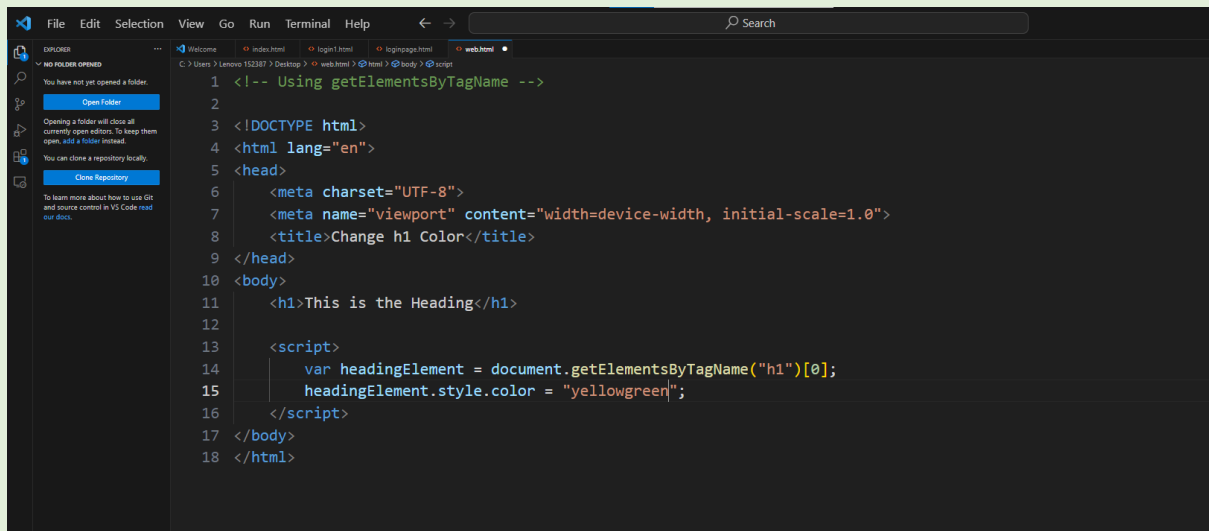


```
1 <!-- Using getElementById -->
2
3 <!DOCTYPE html>
4 <html lang="en">
5 <head>
6   <meta charset="UTF-8">
7   <meta name="viewport" content="width=device-width, initial-scale=1.0">
8   <title>Change h1 Color</title>
9 </head>
10 <body>
11   <h1 id="myHeading">This is the Heading</h1>
12
13   <script>
14     var headingElement = document.getElementById("myHeading");
15     headingElement.style.color = "yellowgreen";
16   </script>
17 </body>
18 </html>
```



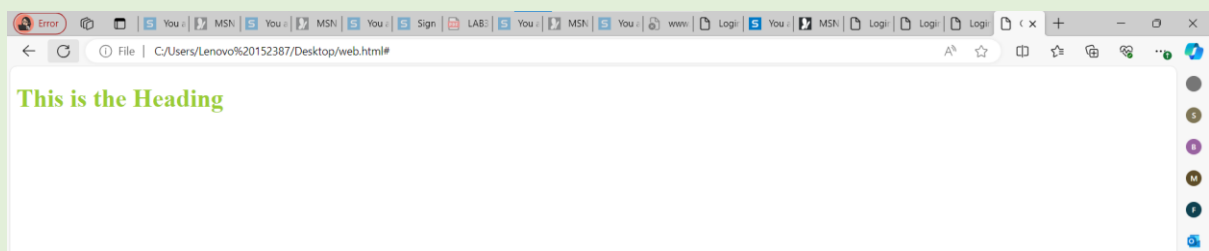
```
1 <!-- Using document.querySelector -->
2
3 <!DOCTYPE html>
4 <html lang="en">
5 <head>
6   <meta charset="UTF-8">
7   <meta name="viewport" content="width=device-width, initial-scale=1.0">
8   <title>Change h1 Color</title>
9 </head>
10 <body>
11   <h1 class="myClass">This is the Heading</h1>
12
13   <script>
14     var headingElement = document.querySelector(".myClass");
15     headingElement.style.color = "yellowgreen";
16   </script>
17 </body>
18 </html>
```



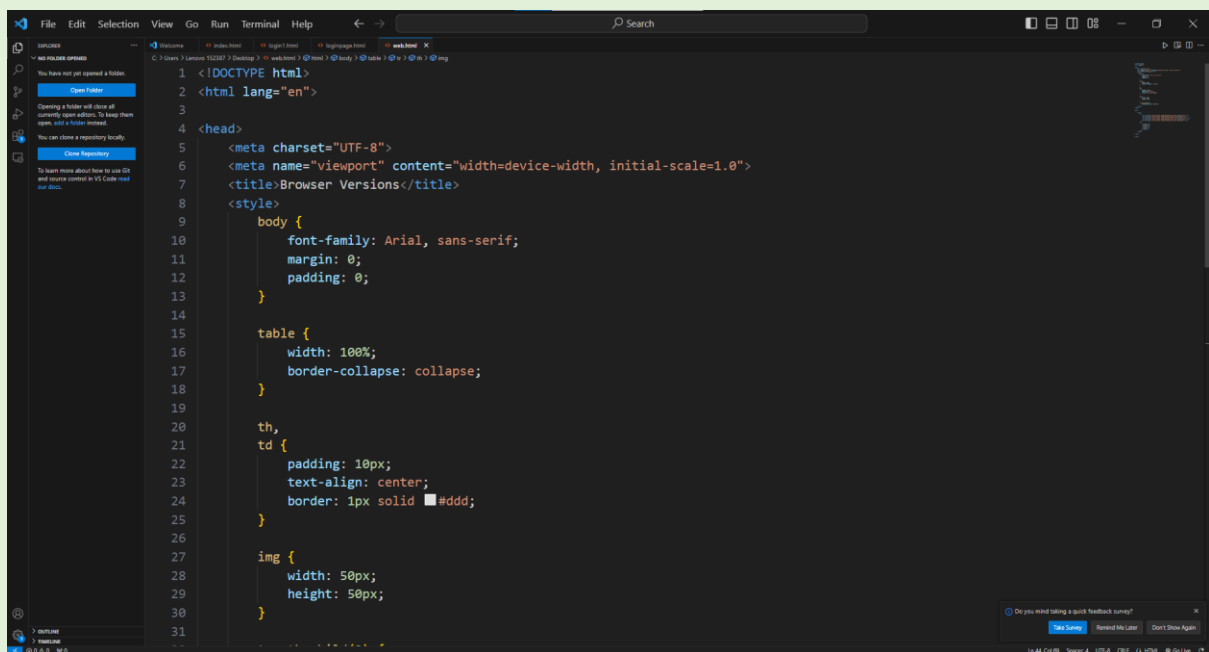


The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left shows a file named 'web.html'. The main editor area displays the following code:

```
1 <!-- Using getElementByTagName -->
2
3 <!DOCTYPE html>
4 <html lang="en">
5 <head>
6   <meta charset="UTF-8">
7   <meta name="viewport" content="width=device-width, initial-scale=1.0">
8   <title>Change h1 Color</title>
9 </head>
10 <body>
11   <h1>This is the Heading</h1>
12
13   <script>
14     var headingElement = document.getElementsByTagName("h1")[0];
15     headingElement.style.color = "yellowgreen";
16   </script>
17 </body>
18 </html>
```



6.



The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left shows a file named 'web.html'. The main editor area displays the following code:

```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Browser Versions</title>
8   <style>
9     body {
10       font-family: Arial, sans-serif;
11       margin: 0;
12       padding: 0;
13     }
14
15     table {
16       width: 100%;
17       border-collapse: collapse;
18     }
19
20     th,
21     td {
22       padding: 10px;
23       text-align: center;
24       border: 1px solid #ddd;
25     }
26
27     img {
28       width: 50px;
29       height: 50px;
30     }
31
```

```
File Edit Selection View Go Run Terminal Help
C:\Users\Lenovo\20152387\Desktop> web.html X
27     img {
28         width: 50px;
29         height: 50px;
30     }
31
32     tr:nth-child(2) {
33         background-color: #f2f2f2;
34     }
35 }
36 </style>
37 </head>
38 <body>
39
40     <table>
41     <tr>
42         <th></th>
43         <th></th>
44         <th></th>
45         <th></th>
46         <th></th>
47     </tr>
48     <tr>
49         <td>57.0</td>
50         <td>16.0</td>
51         <td>52.0</td>
52         <td>10</td>
53         <td>44</td>
54     </tr>
55     </table>
56
57 </body>
```

```
Close Repository
To learn more about how to use Git and source control in VS Code read our docs.
41 <tr>
42     <th></th>
43     <th></th>
44     <th></th>
45     <th></th>
46     <th></th>
47 </tr>
48 <tr>
49     <td>57.0</td>
50     <td>16.0</td>
51     <td>52.0</td>
52     <td>10</td>
53     <td>44</td>
54 </tr>
55 </table>
56
57 </body>
58
59 </html>
```

