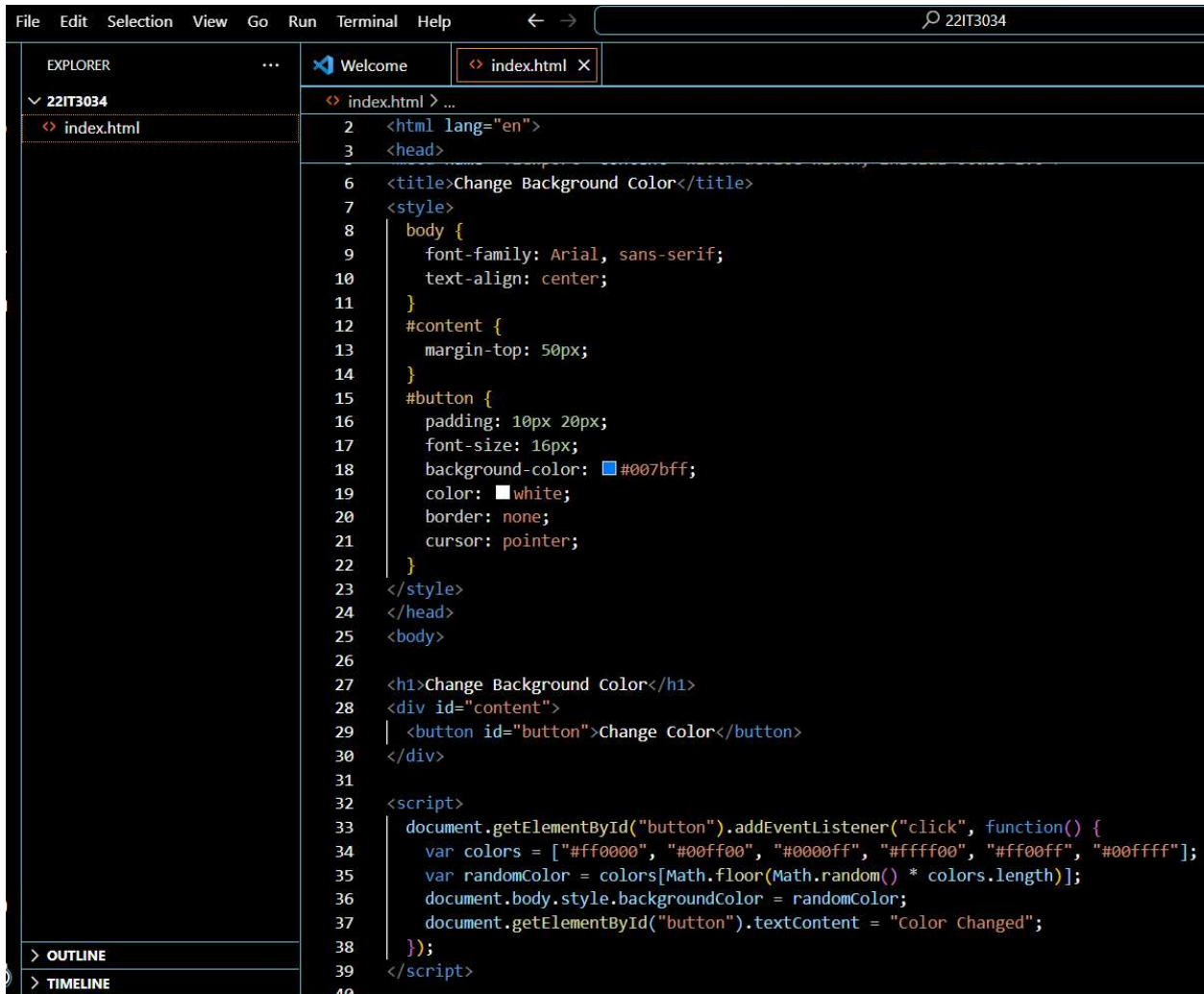


Name - Rajat Kumar
Roll No - 22IT3034

Q1)

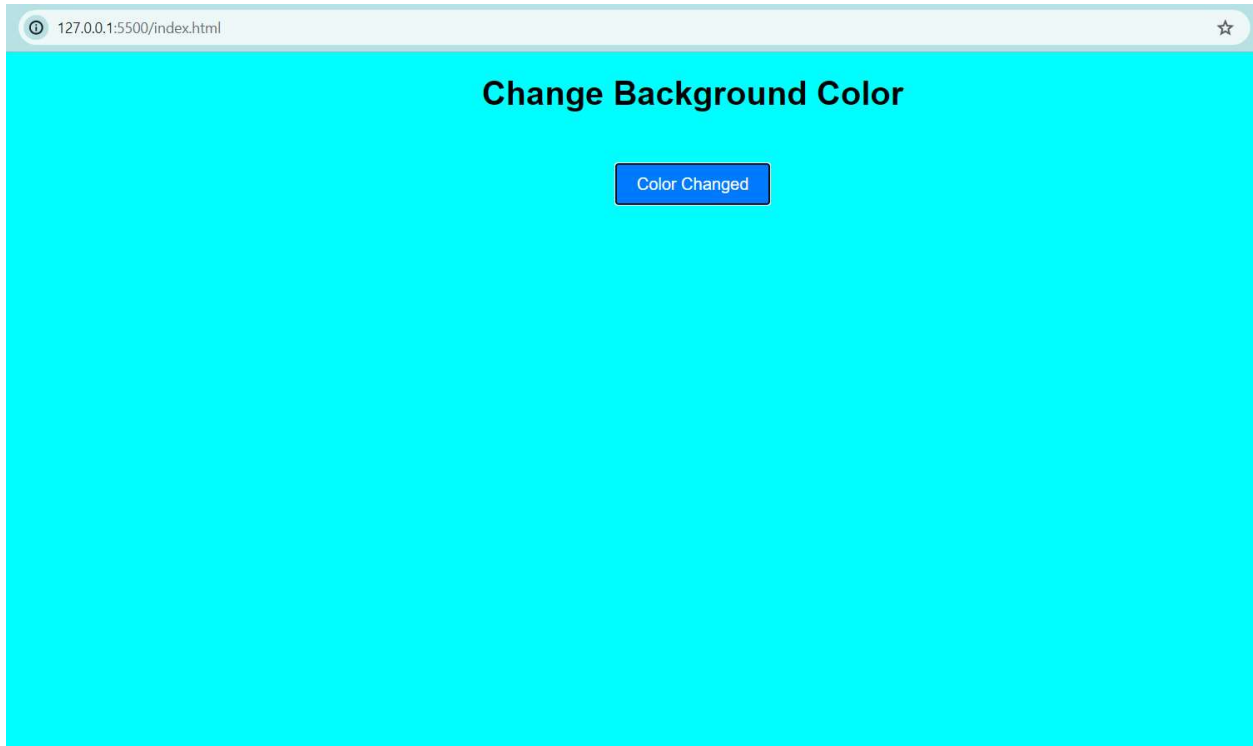


```
File Edit Selection View Go Run Terminal Help 22IT3034

EXPLORER
22IT3034
index.html

index.html > ...
2 <html lang="en">
3 <head>
4
5
6 <title>Change Background Color</title>
7 <style>
8   body {
9     font-family: Arial, sans-serif;
10    text-align: center;
11  }
12  #content {
13    margin-top: 50px;
14  }
15  #button {
16    padding: 10px 20px;
17    font-size: 16px;
18    background-color: #007bff;
19    color: white;
20    border: none;
21    cursor: pointer;
22  }
23 </style>
24 </head>
25 <body>
26
27 <h1>Change Background Color</h1>
28 <div id="content">
29   <button id="button">Change Color</button>
30 </div>
31
32 <script>
33   document.getElementById("button").addEventListener("click", function() {
34     var colors = ["#ff0000", "#00ff00", "#0000ff", "#ffff00", "#ff00ff", "#00ffff"];
35     var randomColor = colors[Math.floor(Math.random() * colors.length)];
36     document.body.style.backgroundColor = randomColor;
37     document.getElementById("button").textContent = "Color Changed";
38   });
39 </script>
40
```

Output-

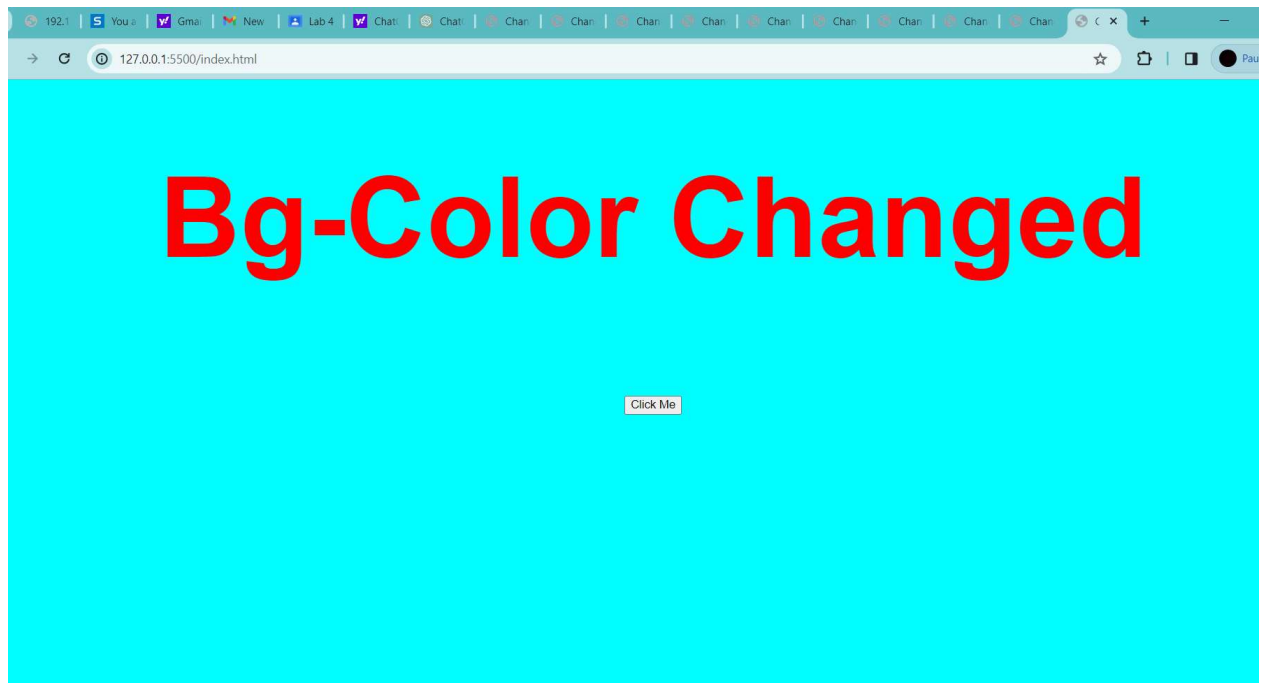
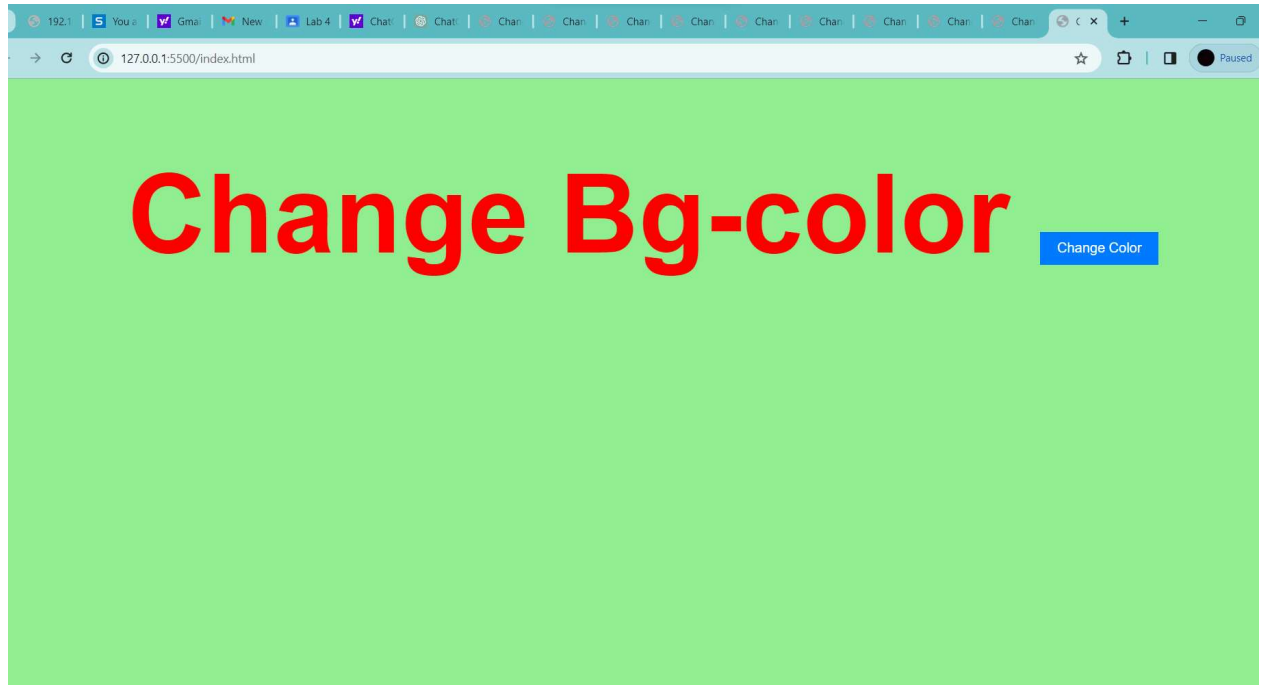


Q2)

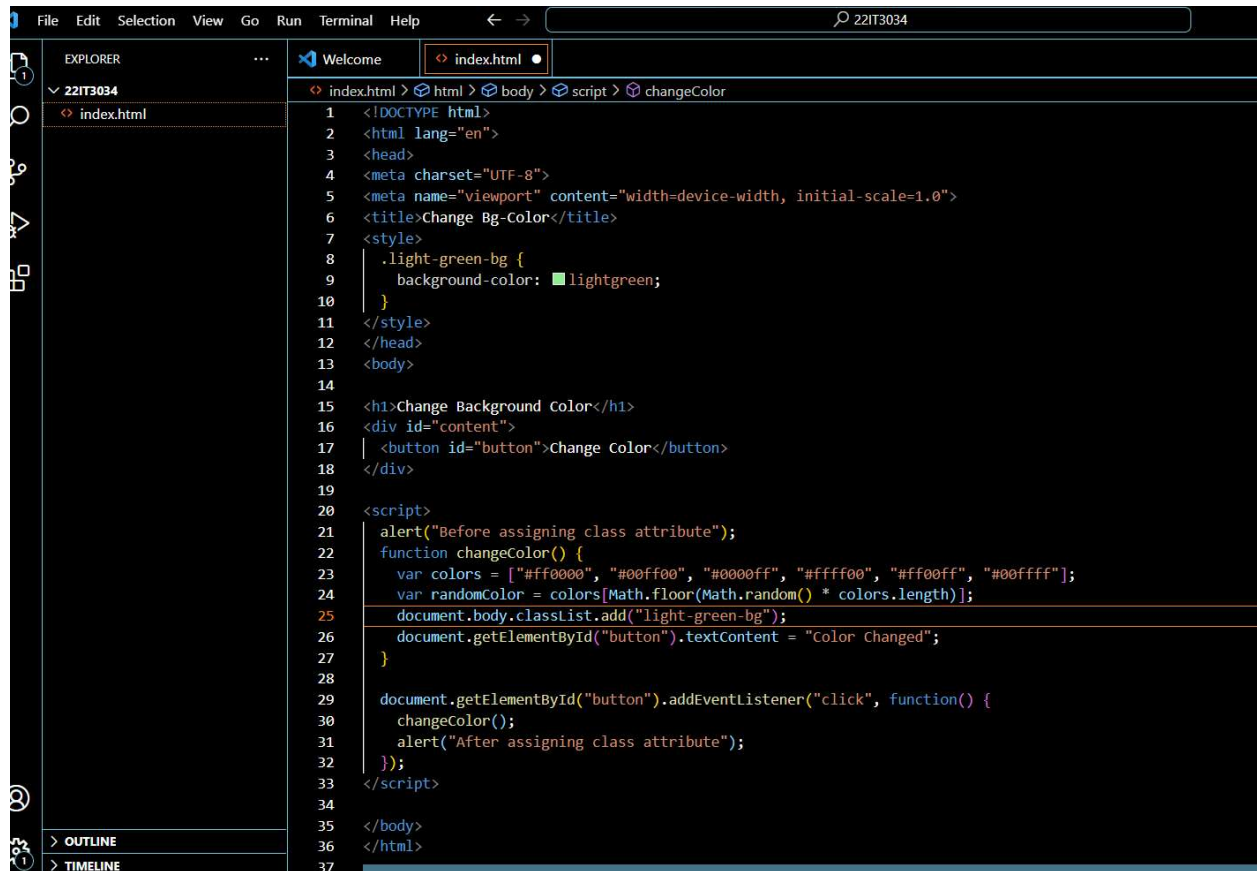
A screenshot of a code editor interface. The Explorer panel on the left shows a project named '22IT3034' with a file 'index.html'. The main editor area shows the code for 'index.html'. The code includes HTML structure with a title 'Change Background Color', CSS styles for the body and a button, and JavaScript code that uses the 'click' event to change the background color to a random color from a predefined array. The code is as follows:

```
1 <html lang="en">
2 <head>
3
4
5
6 <title>Change Background Color</title>
7 <style>
8   body {
9     font-family: Arial, sans-serif;
10    text-align: center;
11    background-color: lightgreen;
12    color: red;
13    font-size: 48pt;
14  }
15  #content {
16    margin-top: 50px;
17  }
18  #button {
19    padding: 10px 20px;
20    font-size: 16px;
21    background-color: #007bff;
22    color: white;
23    border: none;
24    cursor: pointer;
25  }
26 </style>
27 </head>
28 <body>
29
30 <h1 id="heading">Change Bg-color <button id="button">Change Color</button></h1>
31
32 <script>
33   document.getElementById("button").addEventListener("click", function() {
34     var colors = ["#ff0000", "#00ff00", "#0000ff", "#ffff00", "#ff00ff", "#00ffff"];
35     var randomColor = colors[Math.floor(Math.random() * colors.length)];
36     document.body.style.backgroundColor = randomColor;
37     document.getElementById("button").textContent = "Color Changed";
38     document.getElementById("heading").innerHTML = "Bg-color Changed";
39     document.getElementById("heading").insertAdjacentHTML('afterend', '<button>Click Me</button>');
40   });
41 </script>
```

Output-

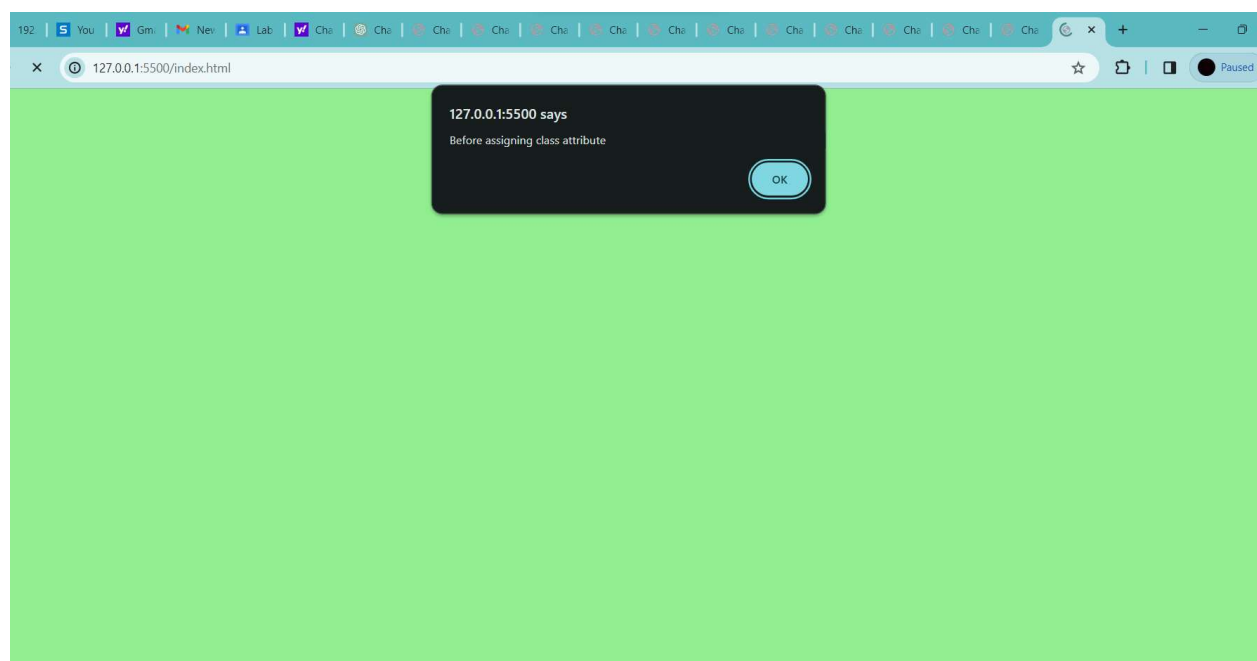


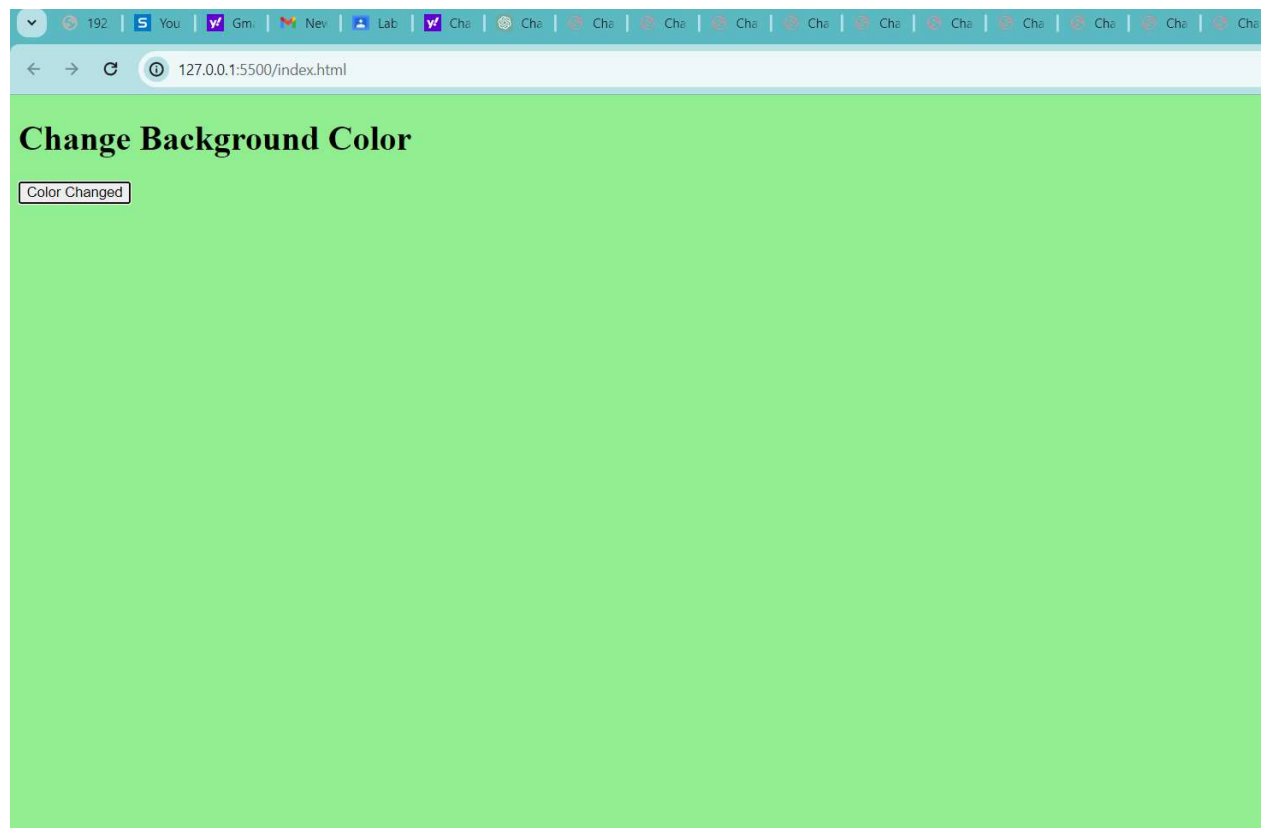
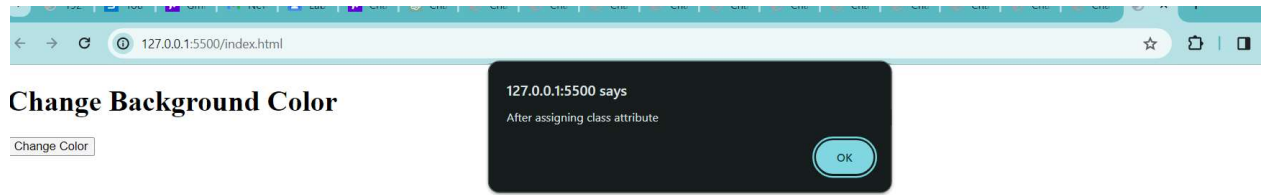
Q3)



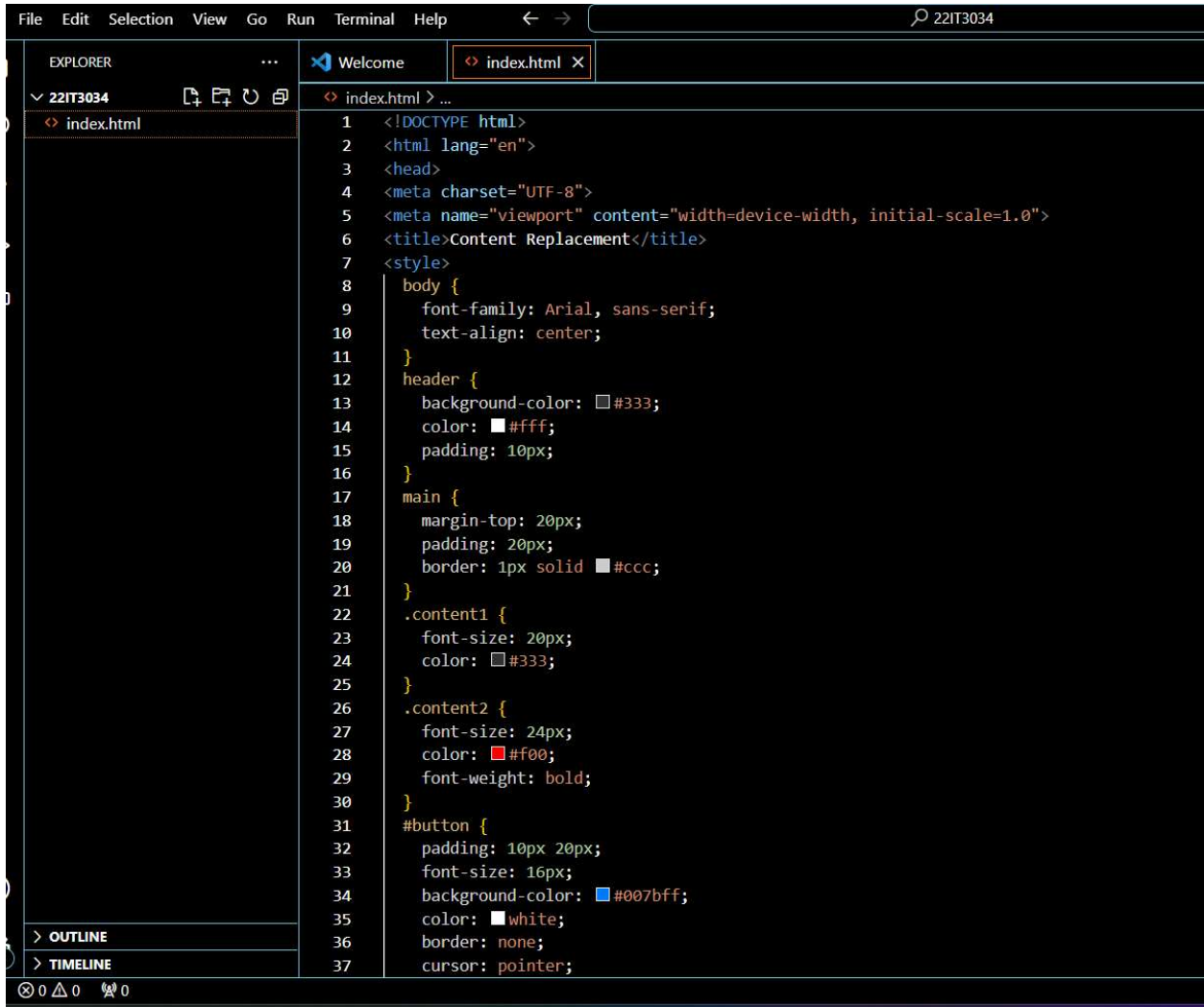
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Change Bg-Color</title>
7 <style>
8   .light-green-bg {
9     background-color: lightgreen;
10  }
11 </style>
12 </head>
13 <body>
14
15 <h1>Change Background Color</h1>
16 <div id="content">
17   <button id="button">Change Color</button>
18 </div>
19
20 <script>
21   alert("Before assigning class attribute");
22   function changeColor() {
23     var colors = ["#ff0000", "#00ff00", "#0000ff", "#ffff00", "#ff00ff", "#00ffff"];
24     var randomColor = colors[Math.floor(Math.random() * colors.length)];
25     document.body.classList.add("light-green-bg");
26     document.getElementById("button").textContent = "Color Changed";
27   }
28
29   document.getElementById("button").addEventListener("click", function() {
30     changeColor();
31     alert("After assigning class attribute");
32   });
33 </script>
34
35 </body>
36 </html>
37
```

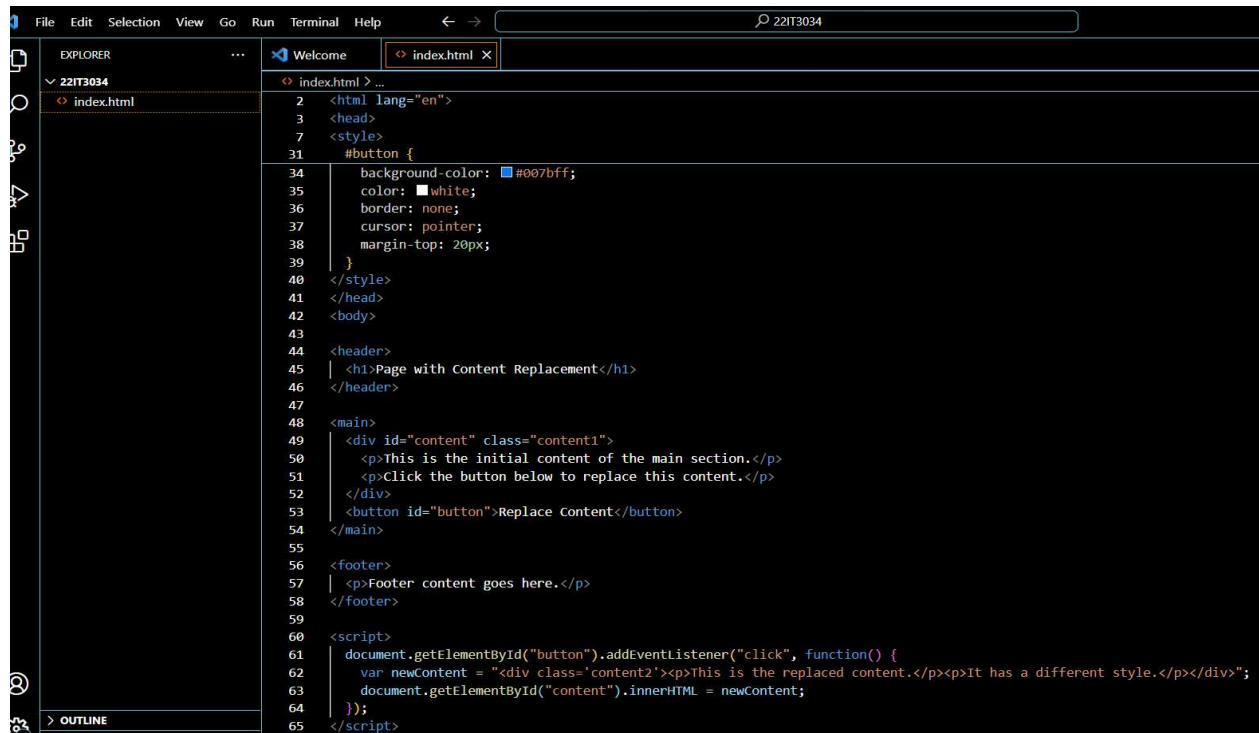
Output-





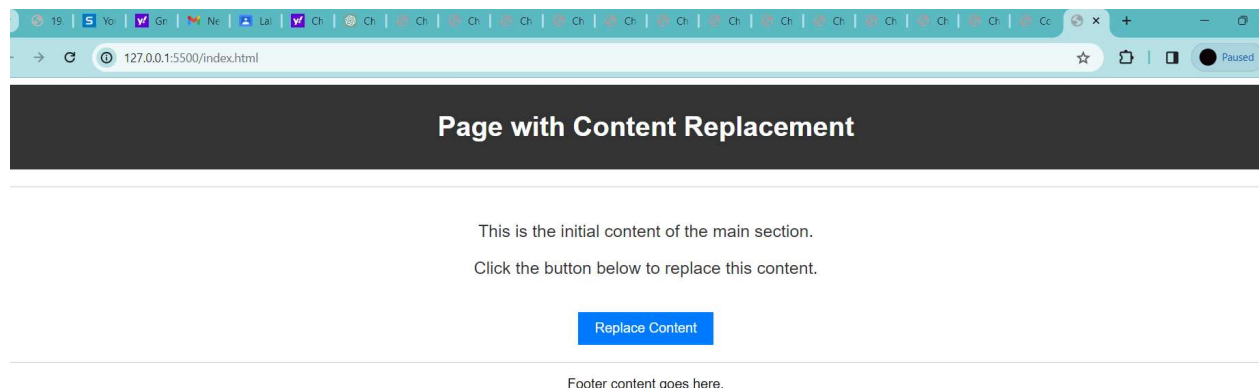
Q4)

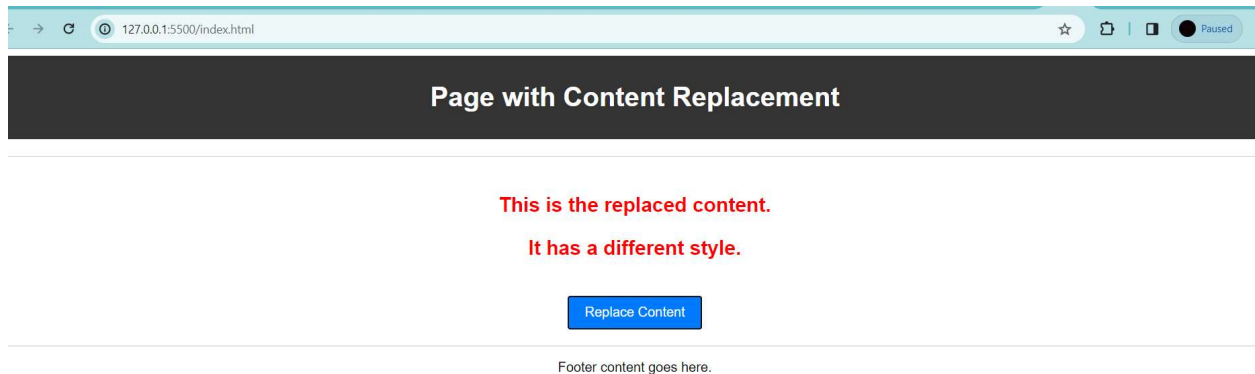




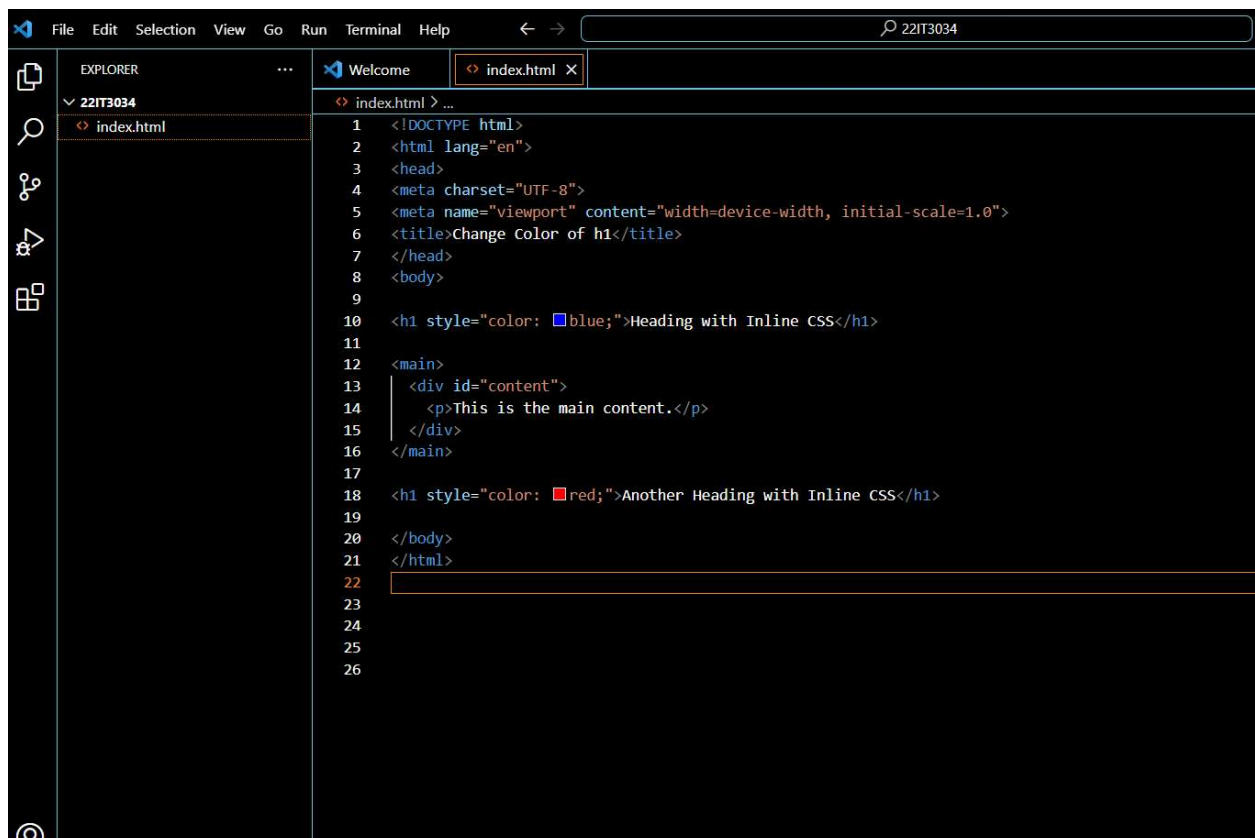
```
2 <html lang="en">
3 <head>
7 <style>
31 #button {
34   background-color: #007bff;
35   color: white;
36   border: none;
37   cursor: pointer;
38   margin-top: 20px;
39 }
40 </style>
41 </head>
42 <body>
43
44 <header>
45 | <h1>Page with Content Replacement</h1>
46 </header>
47
48 <main>
49 | <div id="content" class="content1">
50 |   <p>This is the initial content of the main section.</p>
51 |   <p>Click the button below to replace this content.</p>
52 | </div>
53 | <button id="button">Replace Content</button>
54 </main>
55
56 <footer>
57 | <p>Footer content goes here.</p>
58 </footer>
59
60 <script>
61 | document.getElementById("button").addEventListener("click", function() {
62 |   var newContent = "<div class='content2'><p>This is the replaced content.</p><p>It has a different style.</p></div>";
63 |   document.getElementById("content").innerHTML = newContent;
64 | });
65 </script>
```

Output-





Q5) Using Inline CSS



Output-



Heading with Inline CSS

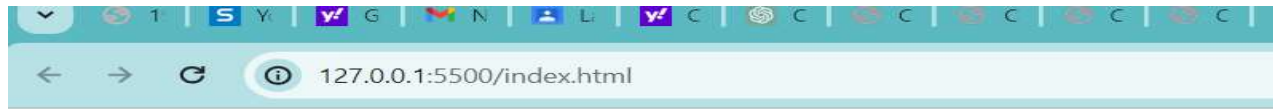
This is the main content.

Another Heading with Inline CSS

Using Internal CSS

```
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 Color of h1</title>
7 <style>
8   #heading1 {
9     color: green;
10  }
11 </style>
12 </head>
13 <body>
14
15 <h1 id="heading1">Heading with Internal CSS</h1>
16
17 <main>
18   <div id="content">
19     <p>This is the main content.</p>
20   </div>
21 </main>
22
23 <h1>Another Heading without any Style</h1>
24
25 </body>
26 </html>
27
28
29
30
31
32
```

Output-

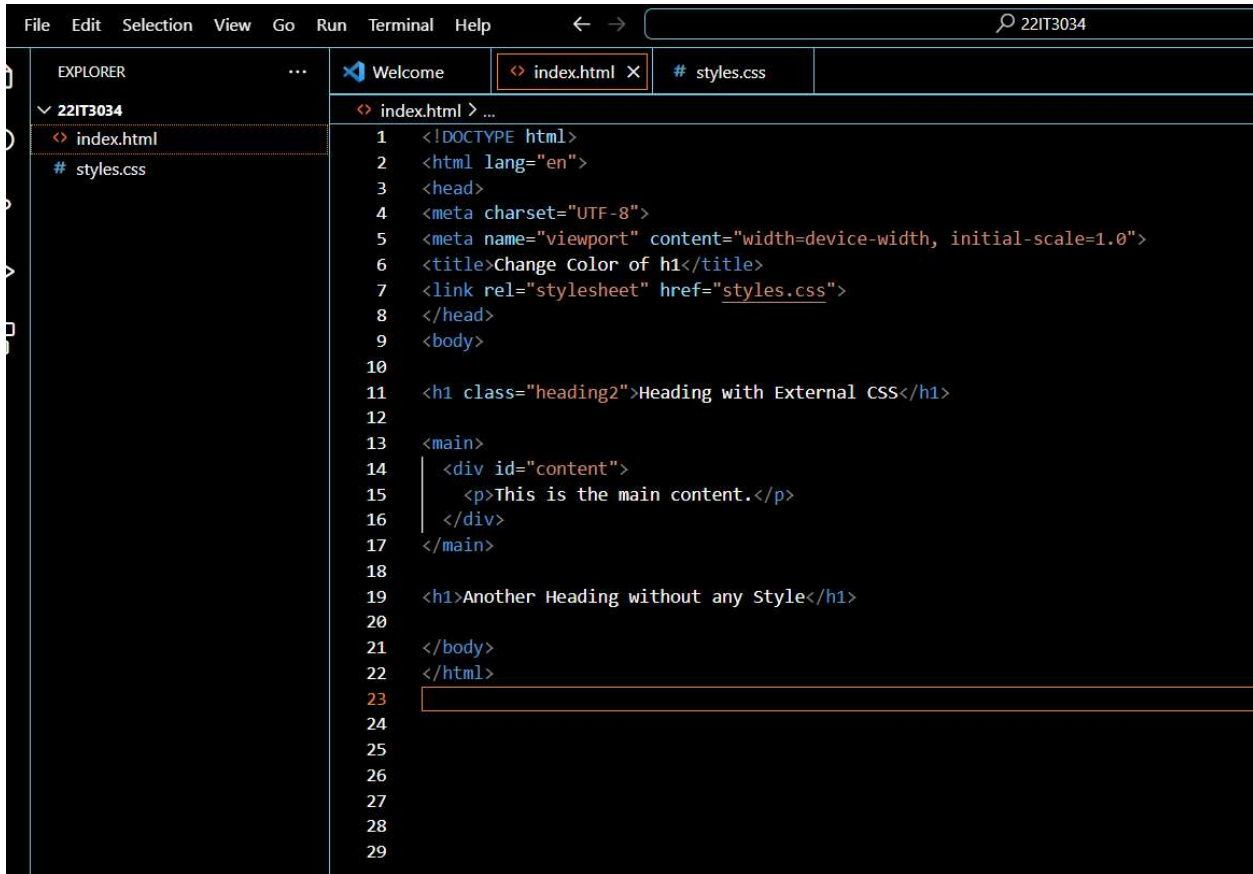


Heading with Internal CSS

This is the main content.

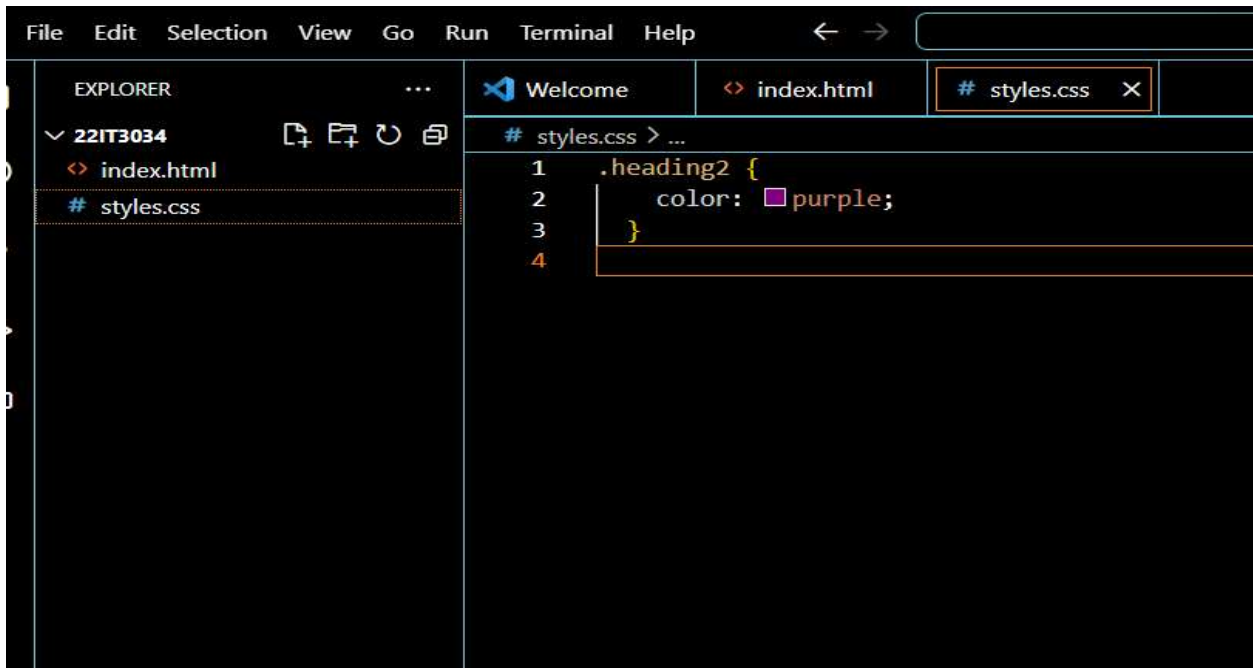
Another Heading without any Style

Using External CSS



This screenshot shows the Visual Studio Code editor with the 'index.html' file open. The Explorer sidebar on the left shows the project structure with 'index.html' and 'styles.css'. The main editor area displays the HTML code for 'index.html', which includes a DOCTYPE declaration, language attribute, meta tags for charset and viewport, a title, a link to the external CSS file, and two heading elements. 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 Color of h1</title>
7 <link rel="stylesheet" href="styles.css">
8 </head>
9 <body>
10
11 <h1 class="heading2">Heading with External CSS</h1>
12
13 <main>
14   <div id="content">
15     <p>This is the main content.</p>
16   </div>
17 </main>
18
19 <h1>Another Heading without any Style</h1>
20
21 </body>
22 </html>
```



This screenshot shows the Visual Studio Code editor with the 'styles.css' file open. The Explorer sidebar on the left shows the project structure with 'index.html' and 'styles.css'. The main editor area displays the CSS code for 'styles.css', which defines a class selector for 'heading2' with a purple color. The code is as follows:

```
1 .heading2 {
2   color: purple;
3 }
4
```

Output-

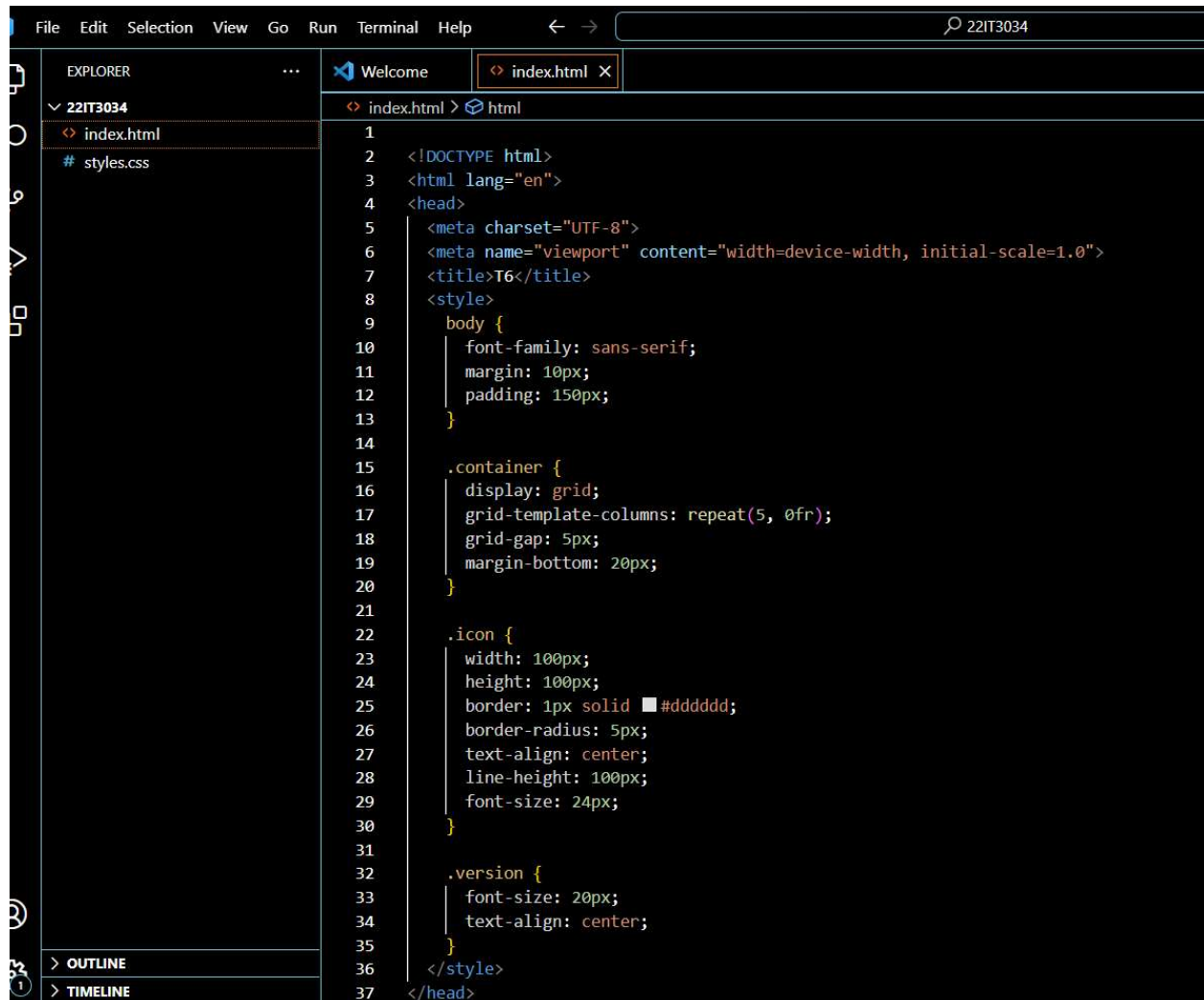
← → ↻ ⓘ 127.0.0.1:5500

Heading with External CSS

This is the main content.

Another Heading without any Style

Q6)



```
1
2 <!DOCTYPE html>
3 <html lang="en">
4 <head>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>T6</title>
8   <style>
9     body {
10       font-family: sans-serif;
11       margin: 10px;
12       padding: 150px;
13     }
14
15     .container {
16       display: grid;
17       grid-template-columns: repeat(5, 0fr);
18       grid-gap: 5px;
19       margin-bottom: 20px;
20     }
21
22     .icon {
23       width: 100px;
24       height: 100px;
25       border: 1px solid ■ #dddddd;
26       border-radius: 5px;
27       text-align: center;
28       line-height: 100px;
29       font-size: 24px;
30     }
31
32     .version {
33       font-size: 20px;
34       text-align: center;
35     }
36 </style>
37 </head>
```

