

# Web Technology

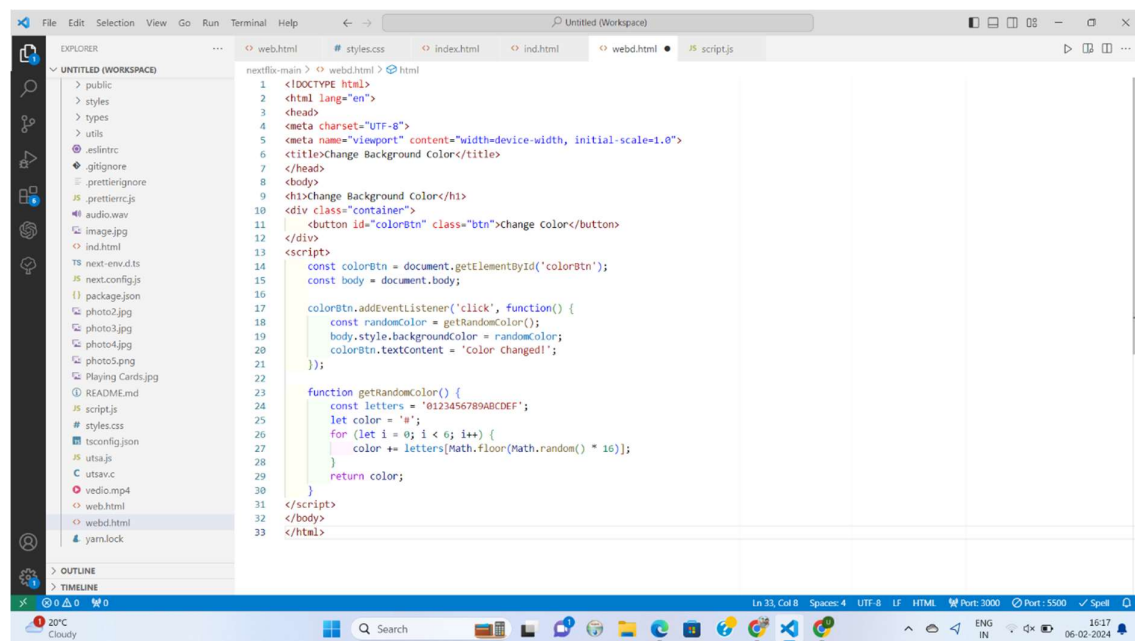
## Lab Assignment – 04

**Name :-** Vivek Yadav

**Roll No. :-** 22CS3067

**Branch :-** CSE

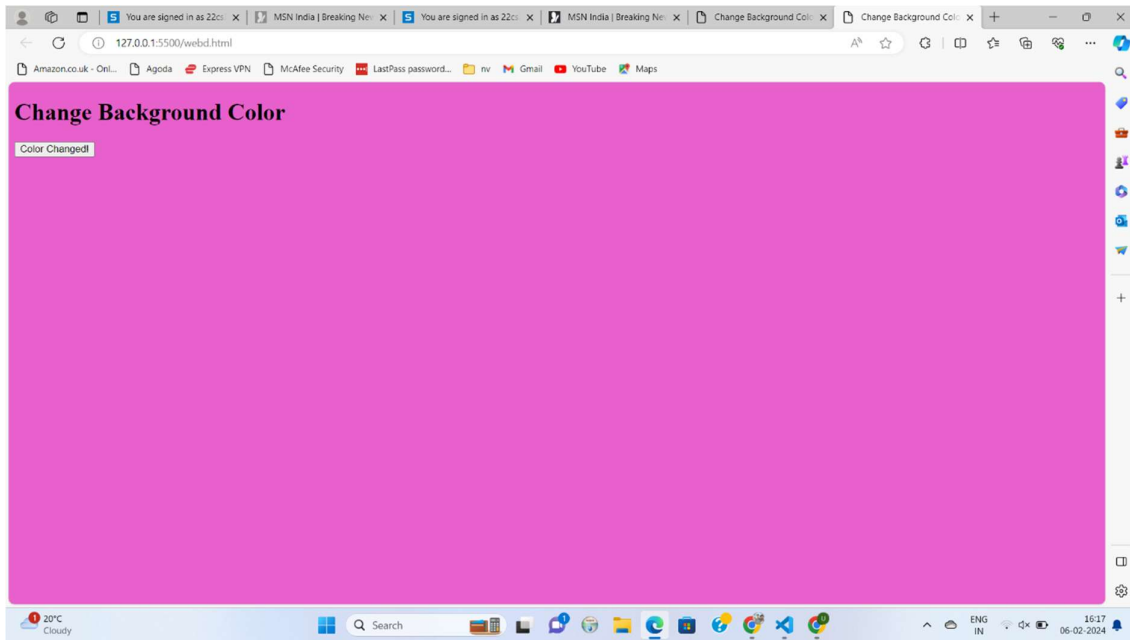
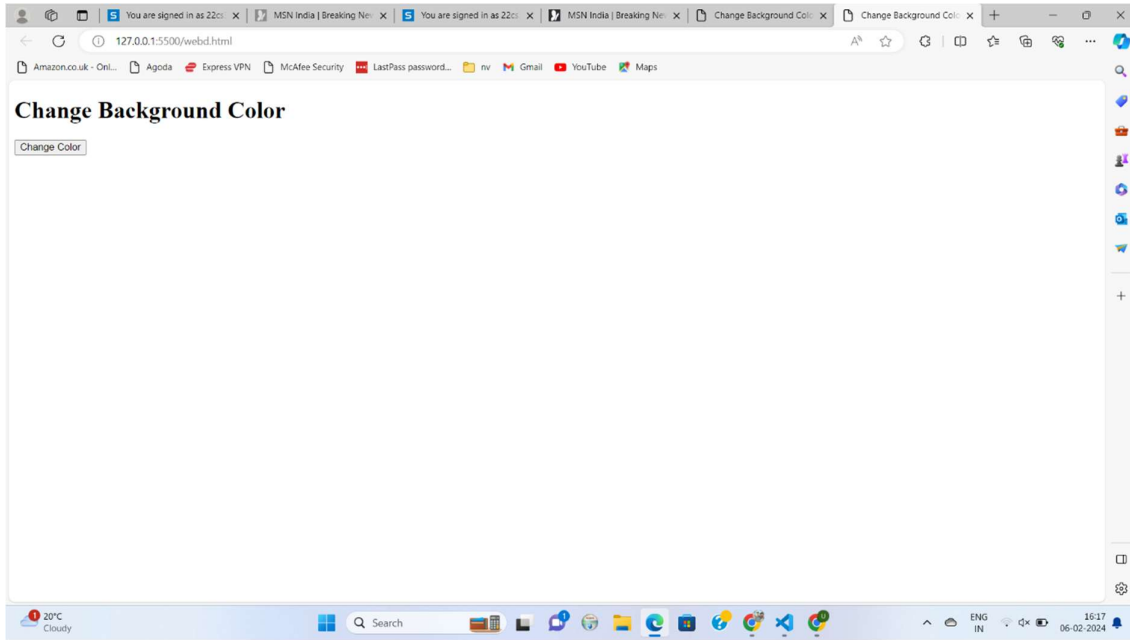
### Task 1)



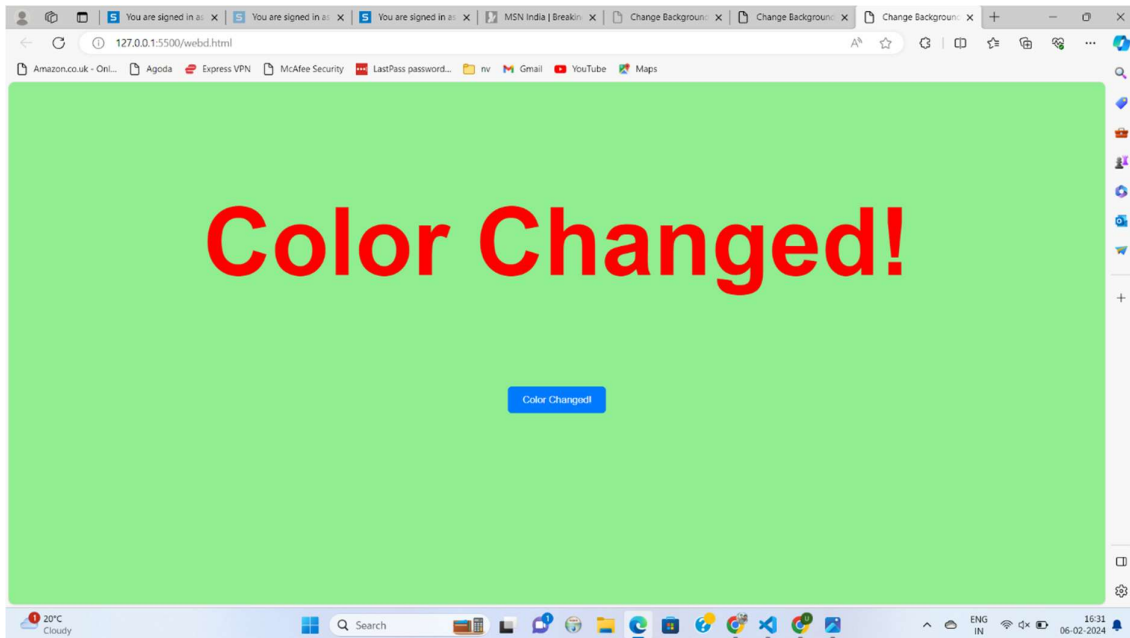
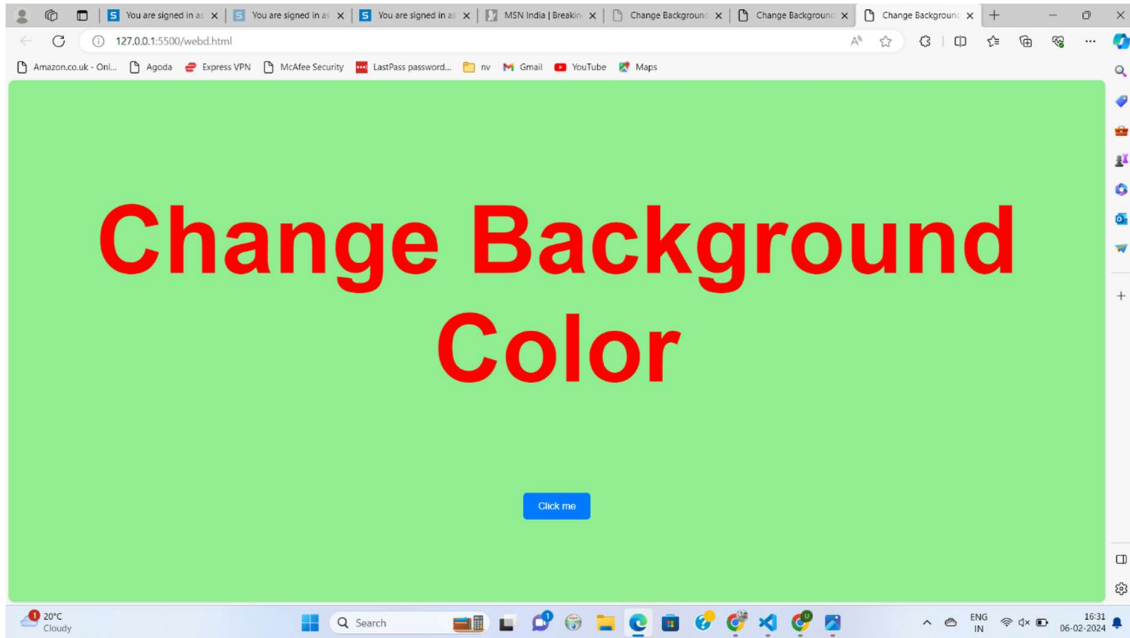
The screenshot shows a Visual Studio Code editor with a workspace named 'untitled (workspace)'. The Explorer sidebar on the left shows a file tree with folders 'public', 'styles', 'types', 'utils', and files like '.eslintrc', '.gitignore', 'prettierrc.js', 'audio.wav', 'image.jpg', 'ind.html', 'next-env.d.ts', 'next.config.js', 'package.json', 'photo2.jpg', 'photo3.jpg', 'photo4.jpg', 'photo5.png', 'Playing Cards.jpg', 'README.md', 'script.js', 'styles.css', 'tsconfig.json', 'utsa.js', 'utsav.c', 'vedio.mp4', 'web.html', 'webd.html', and 'yam.lock'. The main editor area shows the 'webd.html' file with the following code:

```
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</title>
7 </head>
8 <body>
9 <div class="container">
10 <button id="colorBtn" class="btn">Change Color</button>
11 </div>
12 </body>
13 </html>
14 <script>
15 const colorBtn = document.getElementById('colorBtn');
16 const body = document.body;
17
18 colorBtn.addEventListener('click', function() {
19   const randomColor = getRandomColor();
20   body.style.backgroundColor = randomColor;
21   colorBtn.textContent = 'Color Changed!';
22 });
23
24 function getRandomColor() {
25   const letters = '0123456789ABCDEF';
26   let color = '';
27   for (let i = 0; i < 6; i++) {
28     color += letters[Math.floor(Math.random() * 16)];
29   }
30   return color;
31 }
32 </script>
33 </body>
34 </html>
```

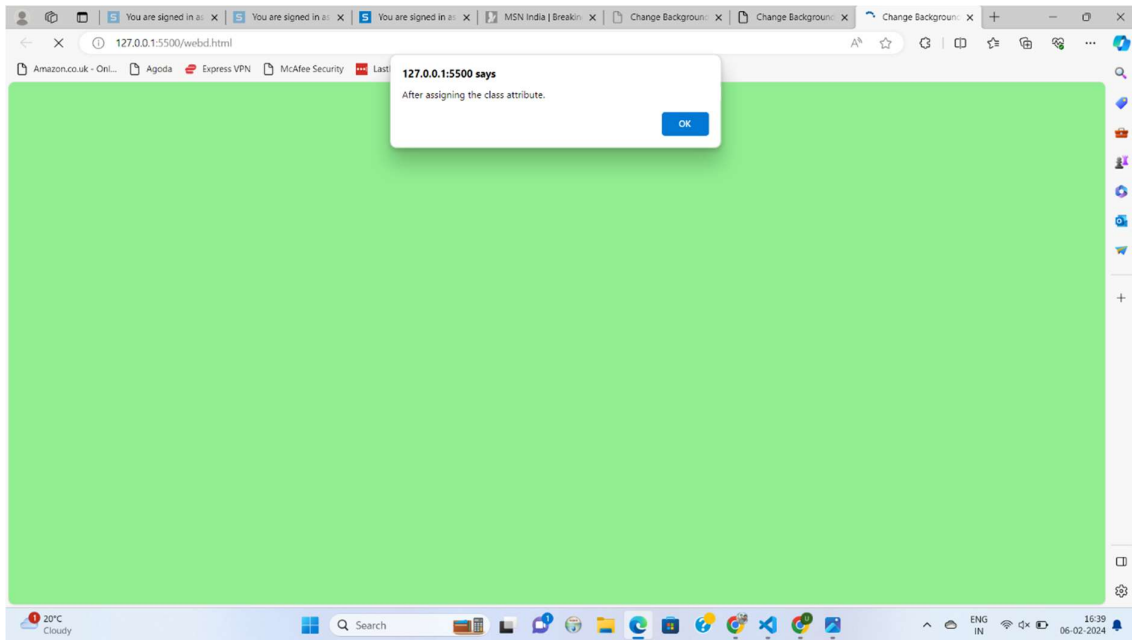
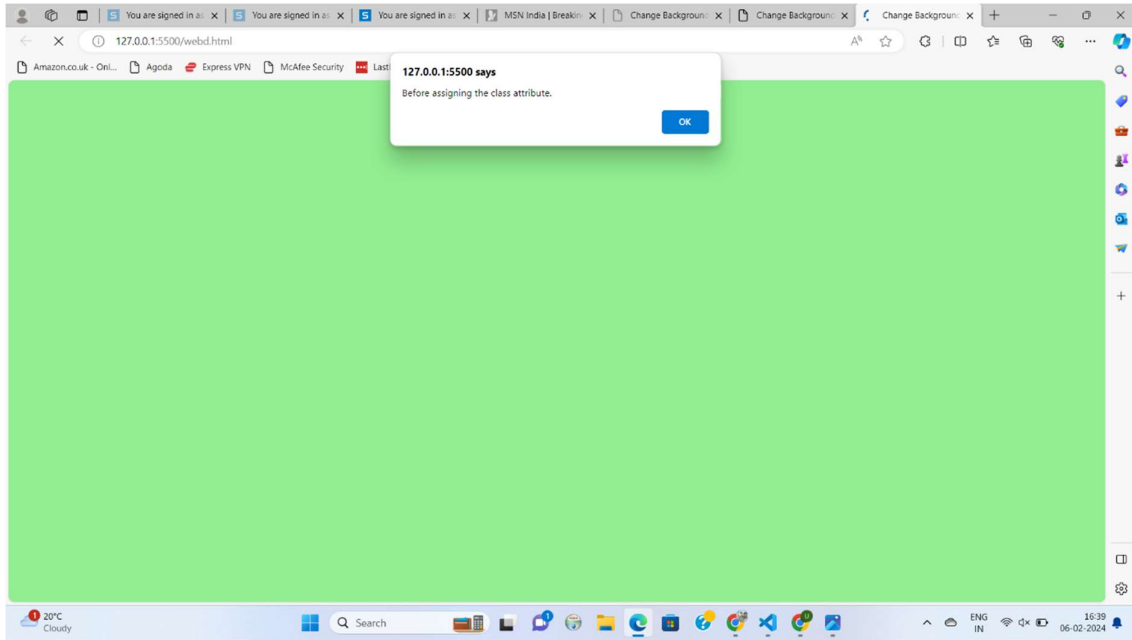
The status bar at the bottom indicates 'Ln 33, Col 8', 'Spaces: 4', 'UTF-8', 'LF', 'HTML', 'Port: 3000', 'Port: 5500', 'Spell', and the system clock shows '16:17' on '06-02-2024'.

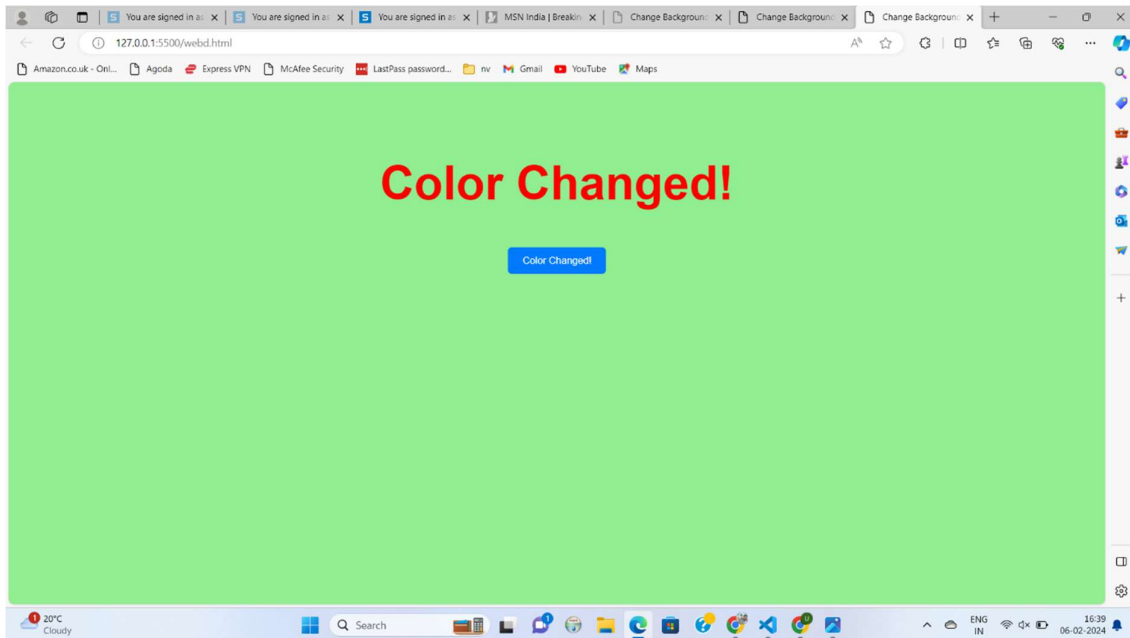
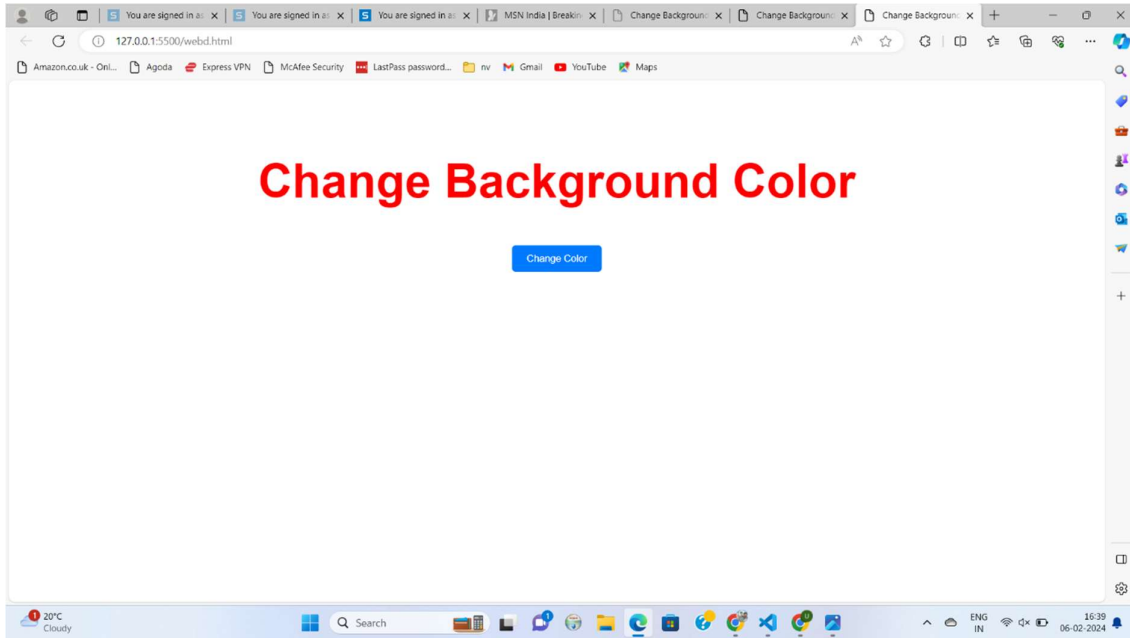


## Task 2)



## Task 3)



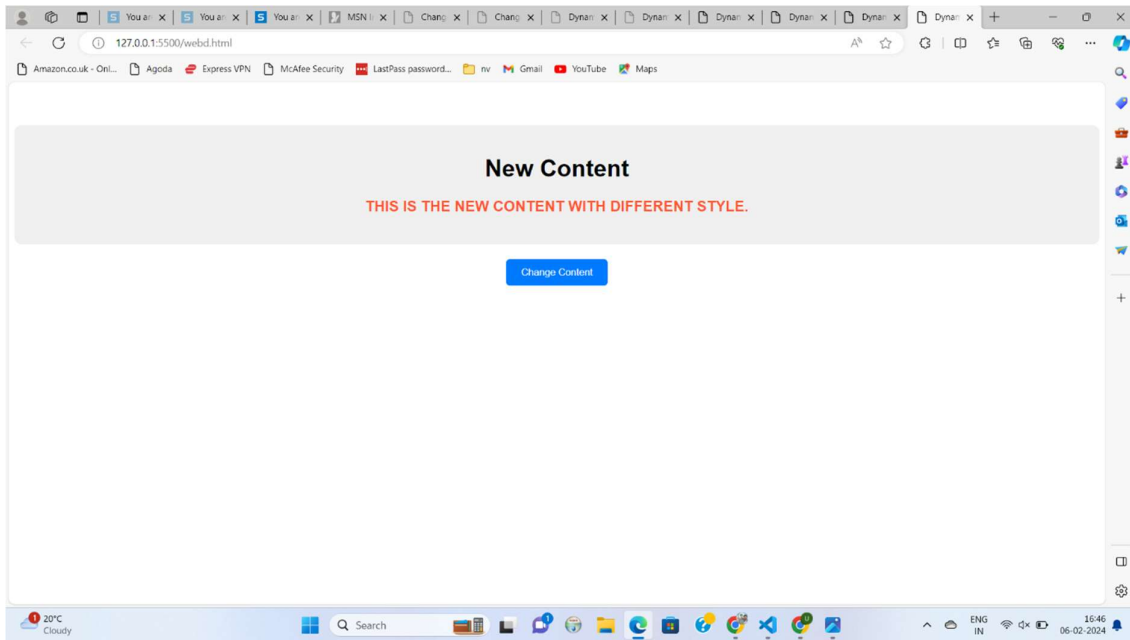
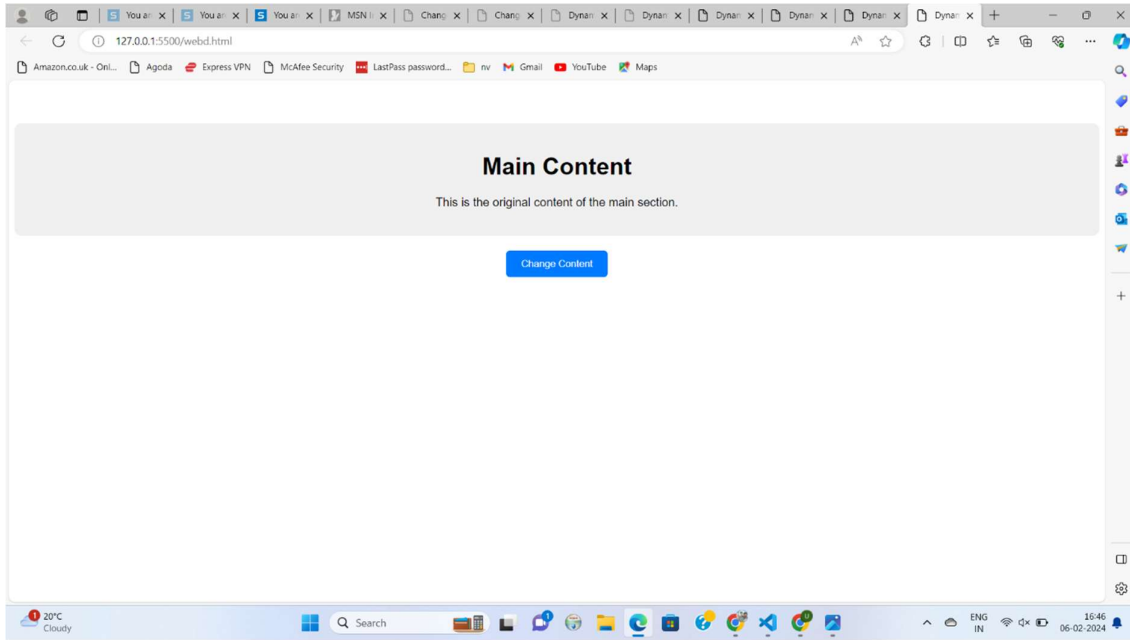


## Task 4)

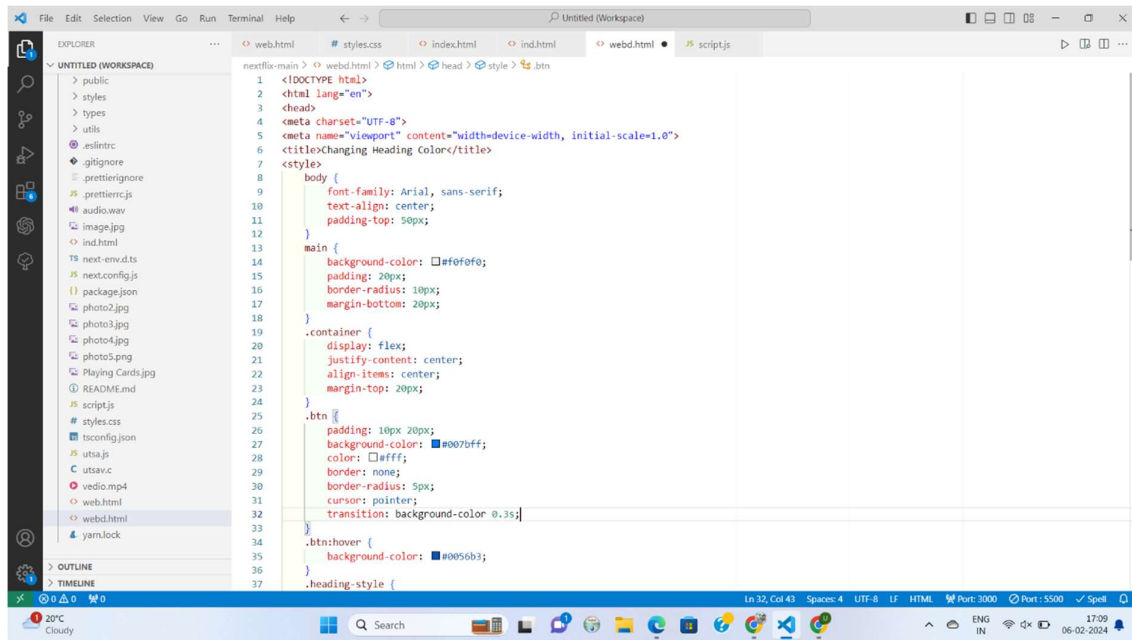
```
1 <!DOCTYPE html>
2 <html lang='en'>
3 <head>
4 <meta charset='UTF-8'>
5 <meta name='viewport' content='width=device-width, initial-scale=1.0'>
6 <title>Dynamic Content Change</title>
7 <style>
8   body {
9     font-family: Arial, sans-serif;
10    text-align: center;
11    padding-top: 50px;
12  }
13  main {
14    background-color: #f0f0f0;
15    padding: 20px;
16    border-radius: 10px;
17    margin-bottom: 20px;
18  }
19  .container {
20    display: flex;
21    justify-content: center;
22    align-items: center;
23    margin-top: 20px;
24  }
25  .btn {
26    padding: 10px 20px;
27    background-color: #007bff;
28    color: #fff;
29    border: none;
30    border-radius: 5px;
31    cursor: pointer;
32    transition: background-color 0.3s;
33  }
34  .btn:hover {
35    background-color: #0056b3;
36  }
37  .new-content {
```

```
38   font-size: 20px;
39   color: #ff5733;
40   font-weight: bold;
41   text-transform: uppercase;
42   margin-top: 20px;
43 }
44 </style>
45 </head>
46 <body>
47 <main>
48   <h1>Main Content</h1>
49   <p>This is the original content of the main section.</p>
50 </main>
51 <div class='container'>
52   <button id='changeContentBtn' class='btn'>Change Content</button>
53 </div>
54 <script>
55   const changeContentBtn = document.getElementById('changeContentBtn');
56   const mainContent = document.querySelector('main');
57   changeContentBtn.addEventListener('click', function() {
58     mainContent.innerHTML = `
59     <h1>New Content</h1>
60     <p class='new-content'>This is the new content with different style.</p>
61   `;
62   });
63 </script>
64 </body>
65 </html>
```



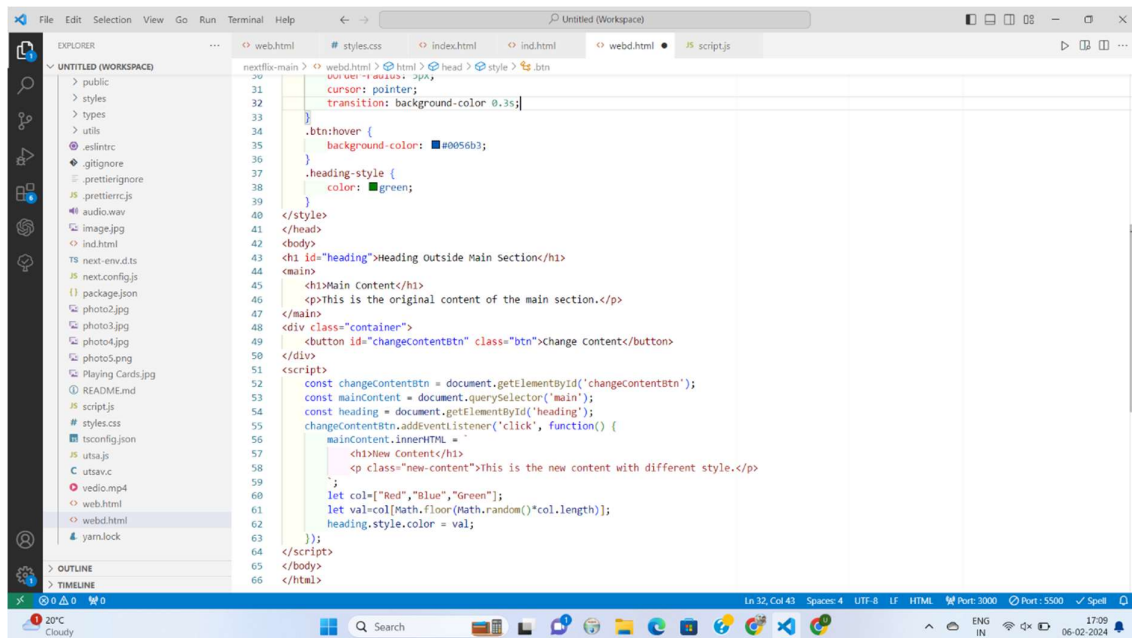


## Task 5)



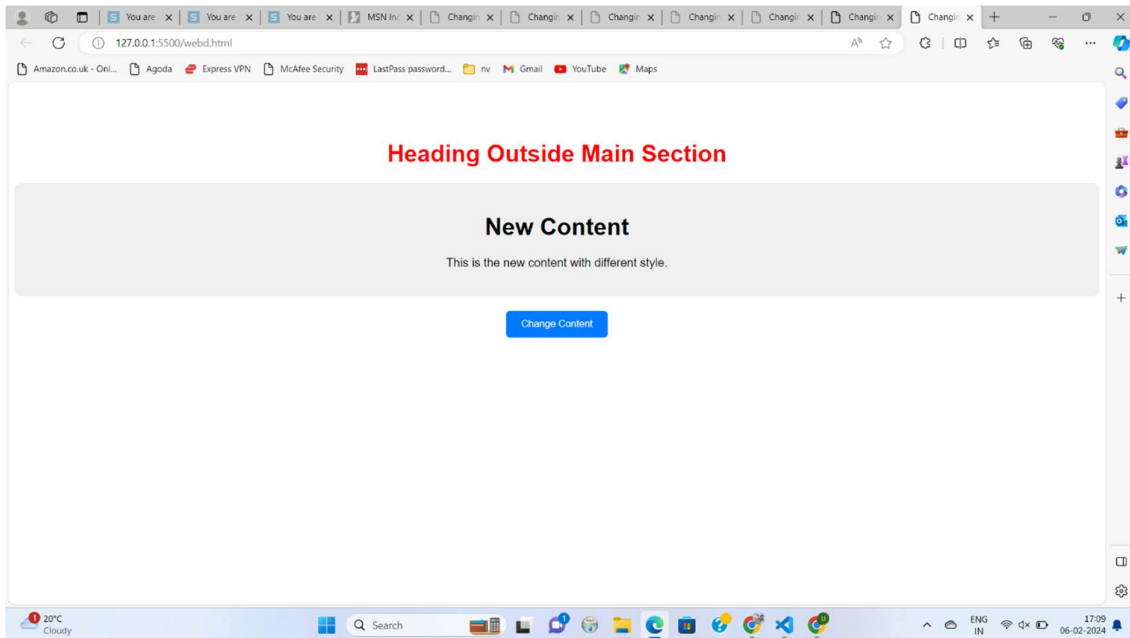
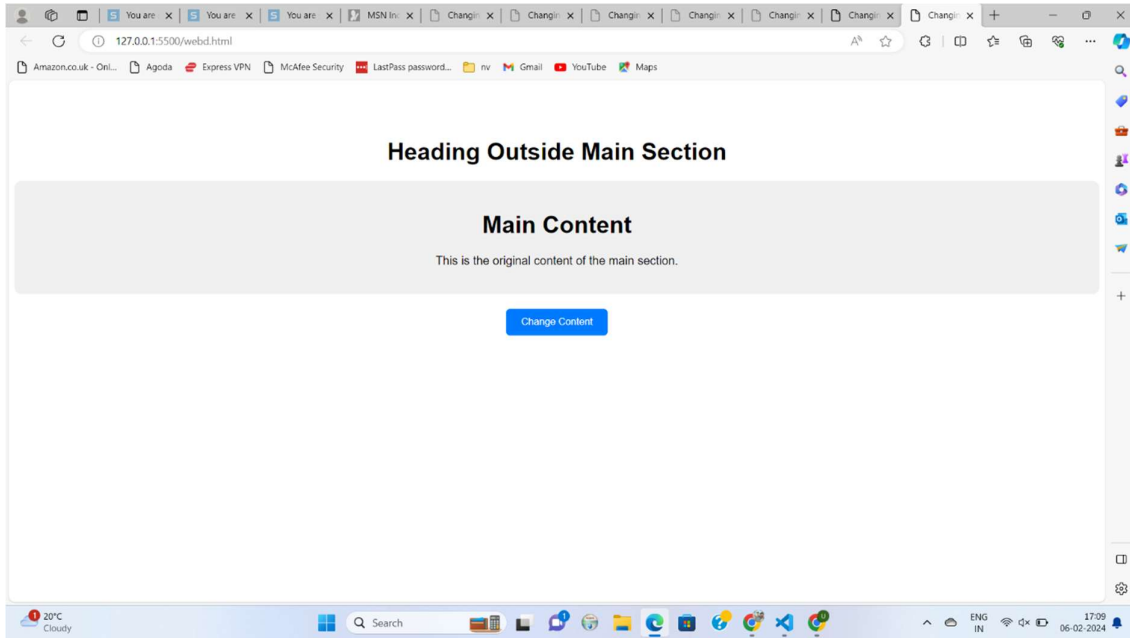
The screenshot shows the VS Code editor with the 'webd.html' file open. The file contains the following CSS code:

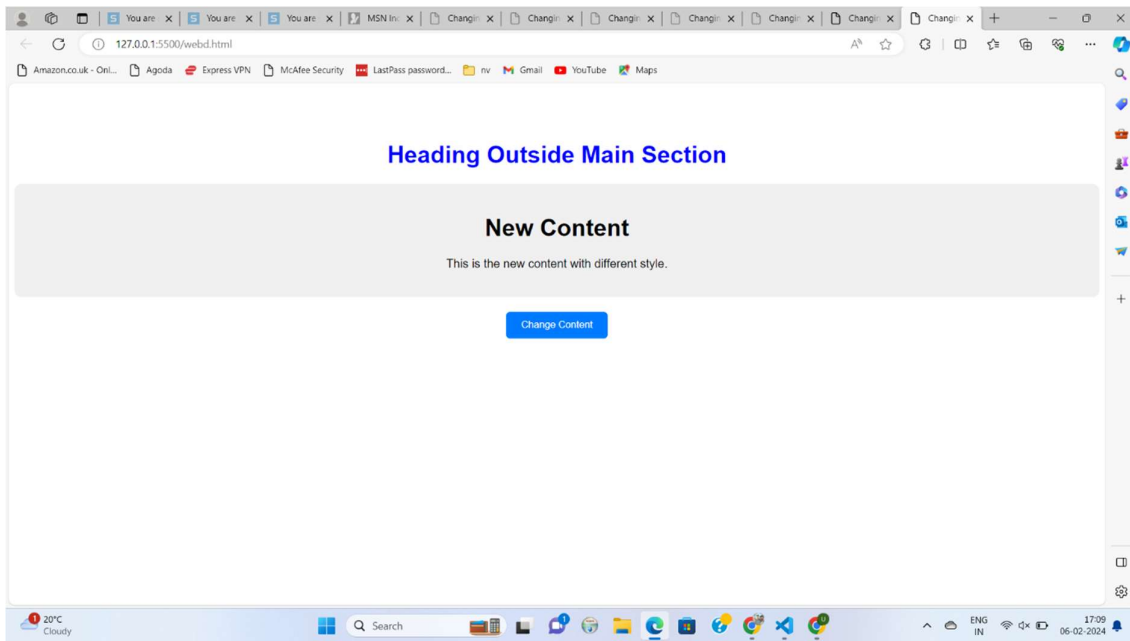
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Changing Heading Color</title>
7 <style>
8   body {
9     font-family: Arial, sans-serif;
10    text-align: center;
11    padding-top: 50px;
12  }
13  main {
14    background-color: #f0f0f0;
15    padding: 20px;
16    border-radius: 10px;
17    margin-bottom: 20px;
18  }
19  .container {
20    display: flex;
21    justify-content: center;
22    align-items: center;
23    margin-top: 20px;
24  }
25  .btn {
26    padding: 10px 20px;
27    background-color: #007bff;
28    color: #fff;
29    border: none;
30    border-radius: 5px;
31    cursor: pointer;
32    transition: background-color 0.3s;
33  }
34  .btn:hover {
35    background-color: #0056b3;
36  }
37  .heading-style {
```



The screenshot shows the VS Code editor with the 'webd.html' file open. The file contains the following HTML and JavaScript code:

```
31   cursor: pointer;
32   transition: background-color 0.3s;
33 }
34 .btn:hover {
35   background-color: #0056b3;
36 }
37 .heading-style {
38   color: green;
39 }
40 </style>
41 </head>
42 <body>
43 <h1 id="heading">Heading Outside Main Section</h1>
44 <main>
45   <h2>Main Content</h2>
46   <p>This is the original content of the main section.</p>
47 </main>
48 <div class="container">
49   <button id="changeContentBtn" class="btn">Change Content</button>
50 </div>
51 <script>
52   const changeContentBtn = document.getElementById('changeContentBtn');
53   const mainContent = document.querySelector('main');
54   const heading = document.getElementById('heading');
55   changeContentBtn.addEventListener('click', function() {
56     mainContent.innerHTML =
57       <h2>New Content</h2>
58       <p class="new-content">This is the new content with different style.</p>
59     ;
60     let col=["Red","Blue","Green"];
61     let val=col[Math.floor(Math.random()*col.length)];
62     heading.style.color = val;
63   });
64 </script>
65 </body>
66 </html>
```





## Task 6)

