

Web Technology

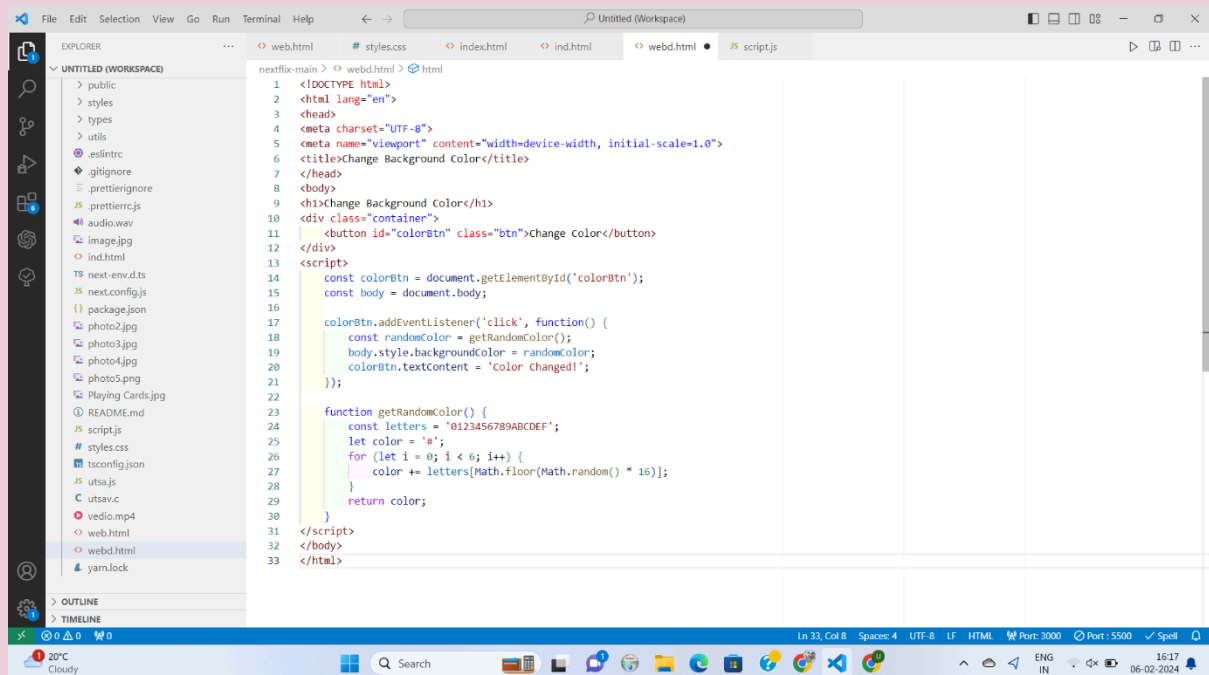
Lab Assignment – 04

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Roll No. :- 22CS3019

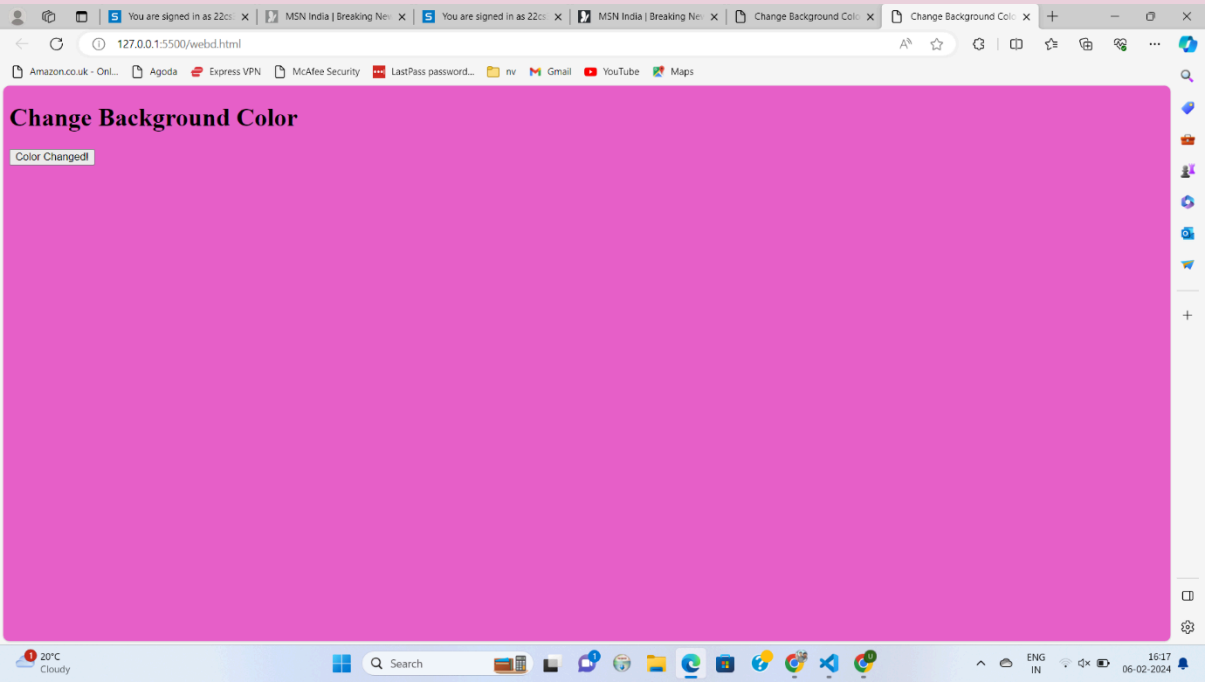
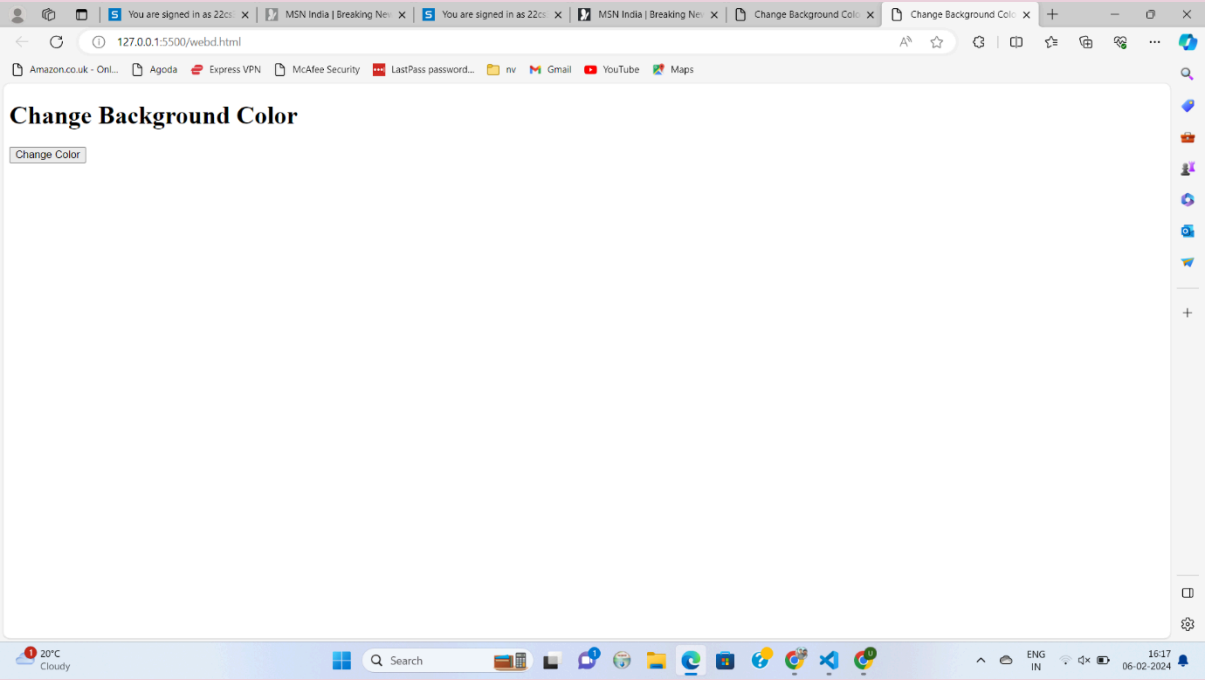
Branch :- CSE

Task 1)

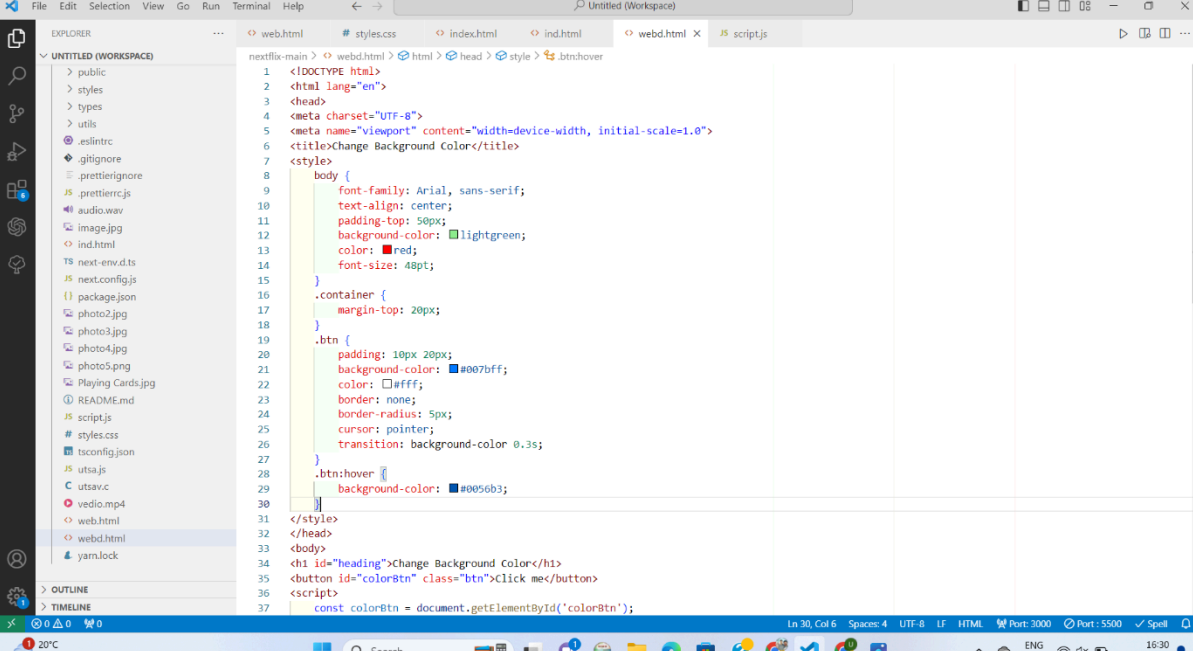


The screenshot shows a VS Code editor with a workspace named 'Untitled (Workspace)'. The Explorer panel on the left shows a file tree with various files and folders. The main editor area displays the code for 'webd.html', which includes HTML and JavaScript code. The code defines a button with the text 'Change Color' and a JavaScript function that changes the background color of the body to a random color when the button is clicked.

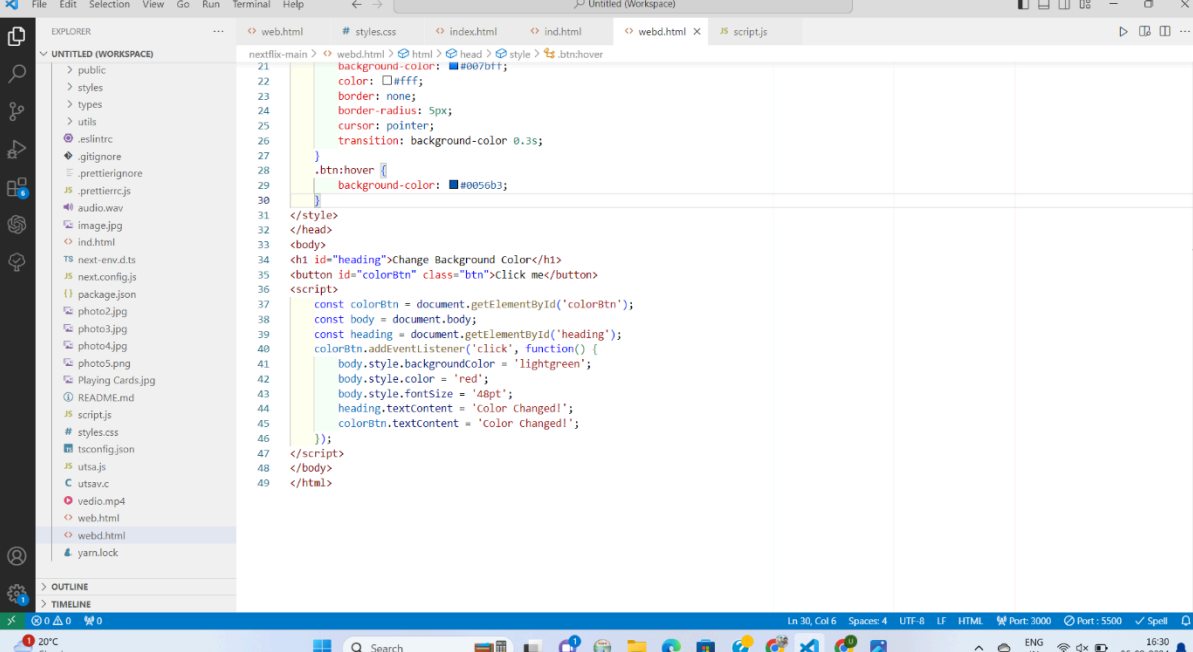
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Change Background Color</title>
7 </head>
8 <body>
9 <h1>Change Background Color</h1>
10 <div class="container">
11 <button id="colorBtn" class="btn">Change Color</button>
12 </div>
13 <script>
14   const colorBtn = document.getElementById('colorBtn');
15   const body = document.body;
16
17   colorBtn.addEventListener('click', function() {
18     const randomColor = getRandomColor();
19     body.style.backgroundColor = randomColor;
20     colorBtn.textContent = 'Color changed!';
21   });
22
23   function getRandomColor() {
24     const letters = '0123456789ABCDEF';
25     let color = '#';
26     for (let i = 0; i < 6; i++) {
27       color += letters[Math.floor(Math.random() * 16)];
28     }
29     return color;
30   }
31 </script>
32 </body>
33 </html>
```



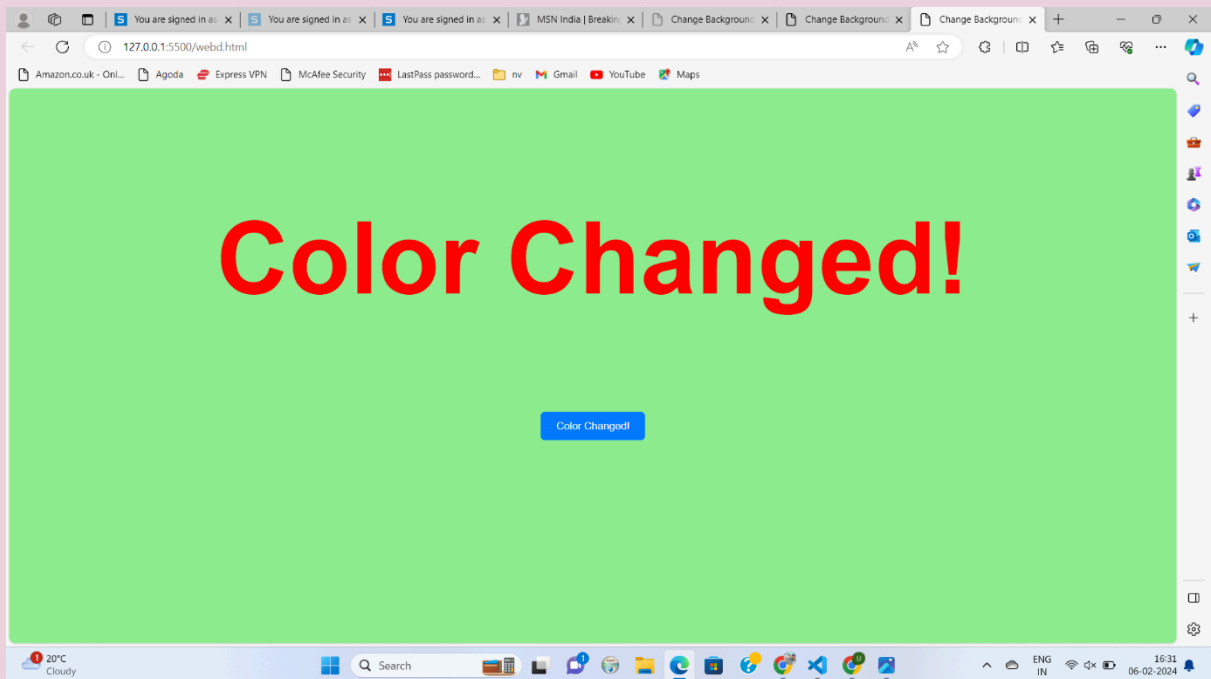
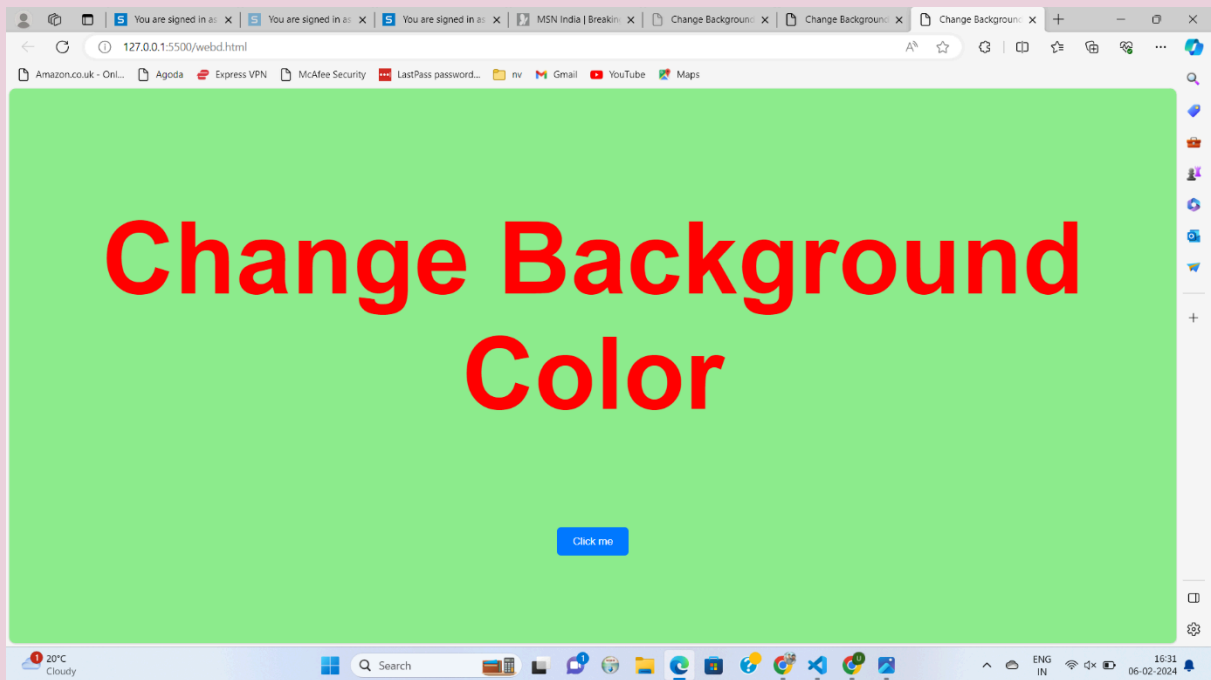
Task 2)



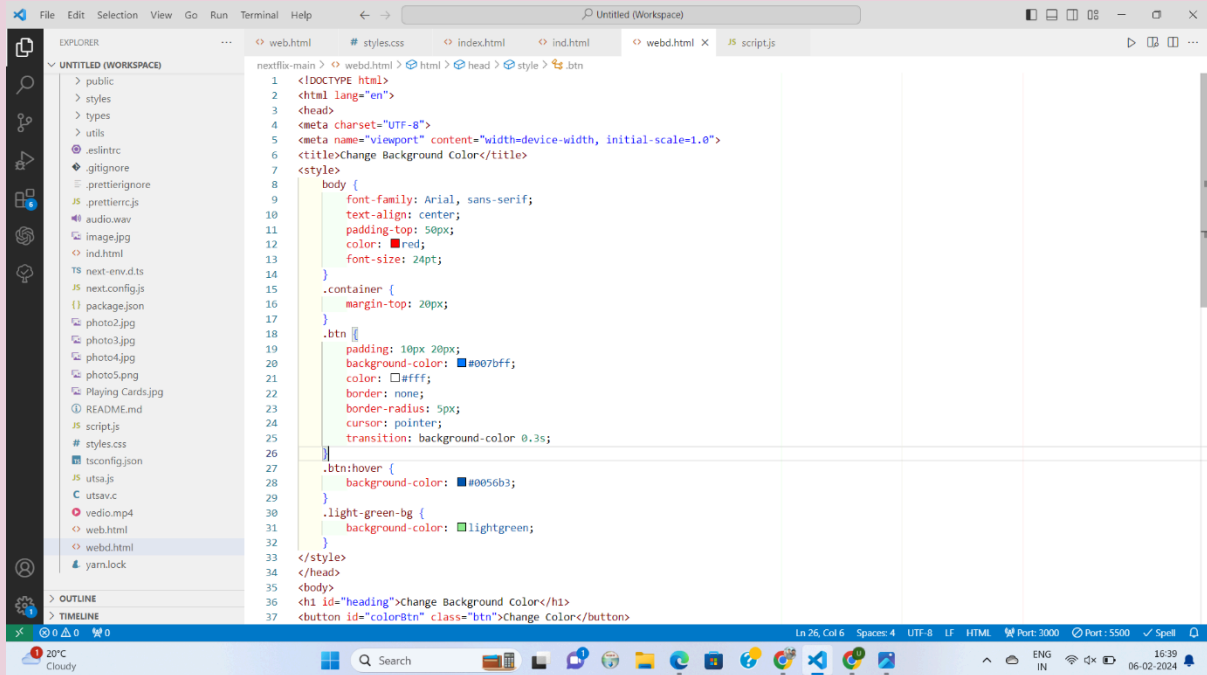
```
nextflix-main > webd.html > html > head > style > .btn:hover
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Change Background Color</title>
7 <style>
8   body {
9     font-family: Arial, sans-serif;
10    text-align: center;
11    padding-top: 50px;
12    background-color: lightgreen;
13    color: red;
14    font-size: 48pt;
15  }
16  .container {
17    margin-top: 20px;
18  }
19  .btn {
20    padding: 10px 20px;
21    background-color: #007bff;
22    color: #fff;
23    border: none;
24    border-radius: 5px;
25    cursor: pointer;
26    transition: background-color 0.3s;
27  }
28  .btn:hover {
29    background-color: #0056b3;
30  }
31 </style>
32 </head>
33 <body>
34 <h1 id="heading">Change Background Color</h1>
35 <button id="colorBtn" class="btn">Click me</button>
36 <script>
37   const colorBtn = document.getElementById('colorBtn');
```



```
nextflix-main > webd.html > html > head > style > .btn:hover
21 background-color: #007bff;
22 color: #fff;
23 border: none;
24 border-radius: 5px;
25 cursor: pointer;
26 transition: background-color 0.3s;
27 }
28 .btn:hover {
29   background-color: #0056b3;
30 }
31 </style>
32 </head>
33 <body>
34 <h1 id="heading">Change Background Color</h1>
35 <button id="colorBtn" class="btn">Click me</button>
36 <script>
37   const colorBtn = document.getElementById('colorBtn');
38   const body = document.body;
39   const heading = document.getElementById('heading');
40   colorBtn.addEventListener('click', function() {
41     body.style.backgroundColor = 'lightgreen';
42     body.style.color = 'red';
43     body.style.fontSize = '48pt';
44     heading.textContent = 'Color changed!';
45     colorBtn.textContent = 'Color changed!';
46   });
47 </script>
48 </body>
49 </html>
```



Task 3)



The screenshot shows a Visual Studio Code editor window titled "Untitled (Workspace)". The Explorer sidebar on the left displays a file tree for a project named "nextflx-main". The tree includes folders like "public", "styles", "types", "utils", and ".eslintrc", as well as various files including "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 "yarn.lock".

The main editor area shows the content of "webd.html", which is an HTML file with the following code:

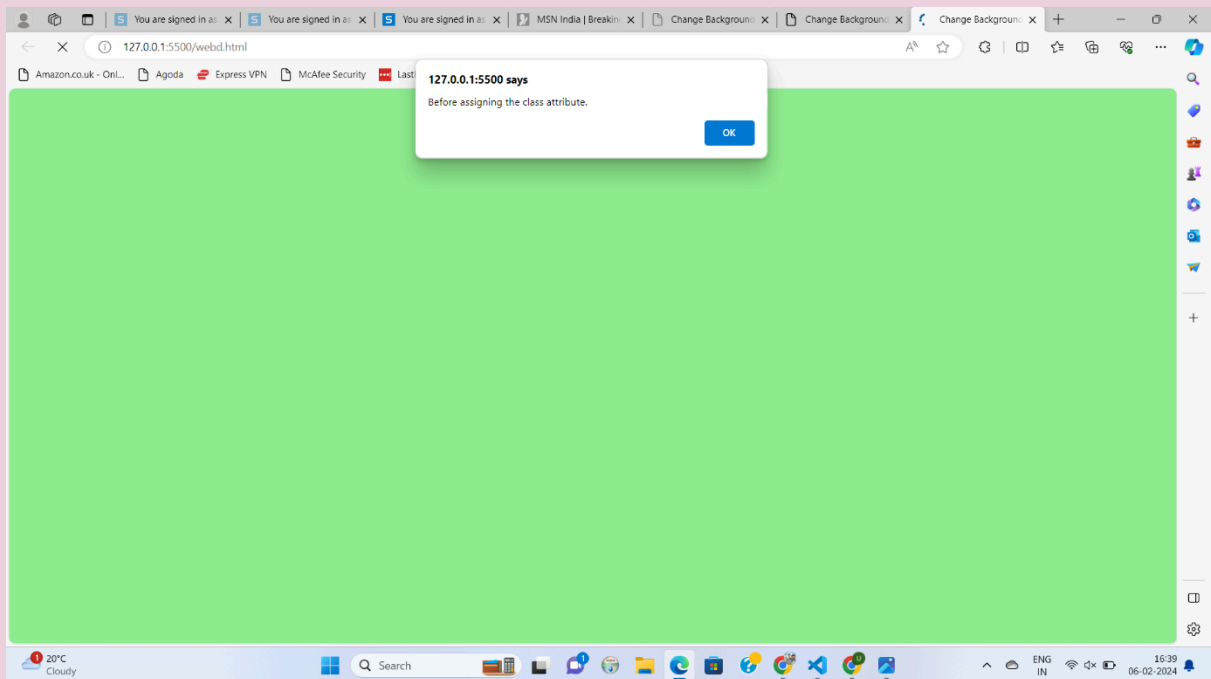
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Change Background Color</title>
7 <style>
8   body {
9     font-family: Arial, sans-serif;
10    text-align: center;
11    padding-top: 50px;
12    color: red;
13    font-size: 24pt;
14  }
15  .container {
16    margin-top: 20px;
17  }
18  .btn {
19    padding: 10px 20px;
20    background-color: #007bff;
21    color: #fff;
22    border: none;
23    border-radius: 5px;
24    cursor: pointer;
25    transition: background-color 0.3s;
26  }
27  .btn:hover {
28    background-color: #0056b3;
29  }
30  .light-green-bg {
31    background-color: lightgreen;
32  }
33 </style>
34 </head>
35 <body>
36 <h1 id="heading">Change Background Color</h1>
37 <button id="colorBtn" class="btn">Change Color</button>
```

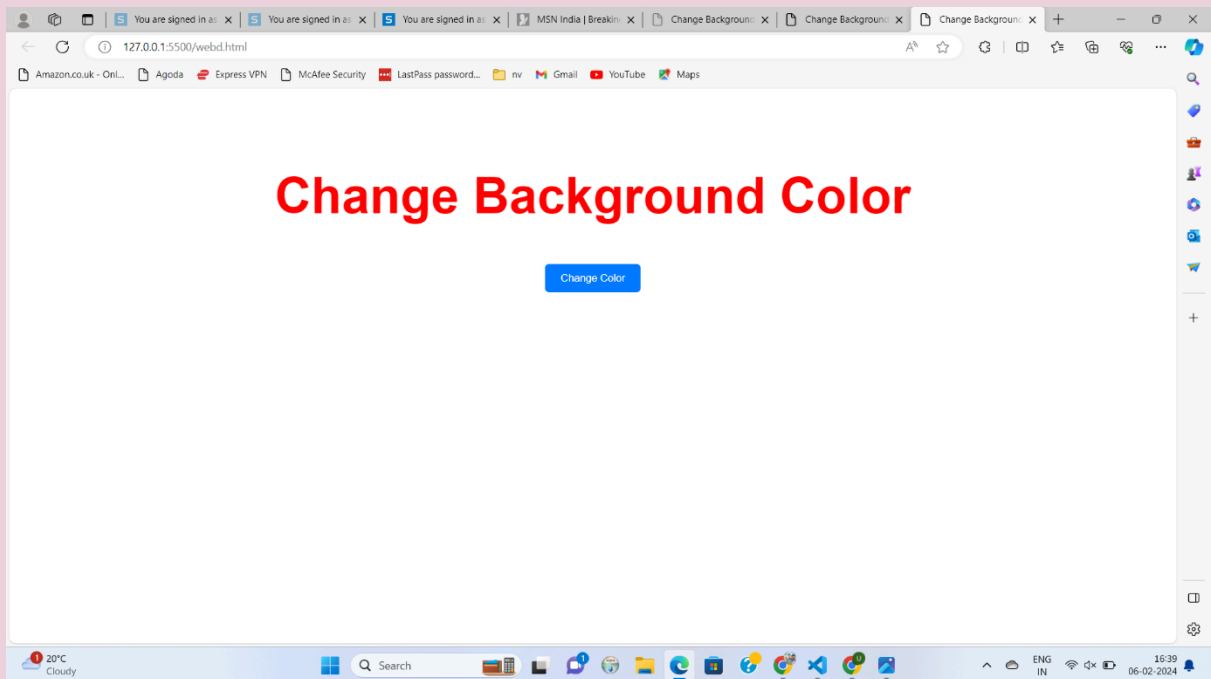
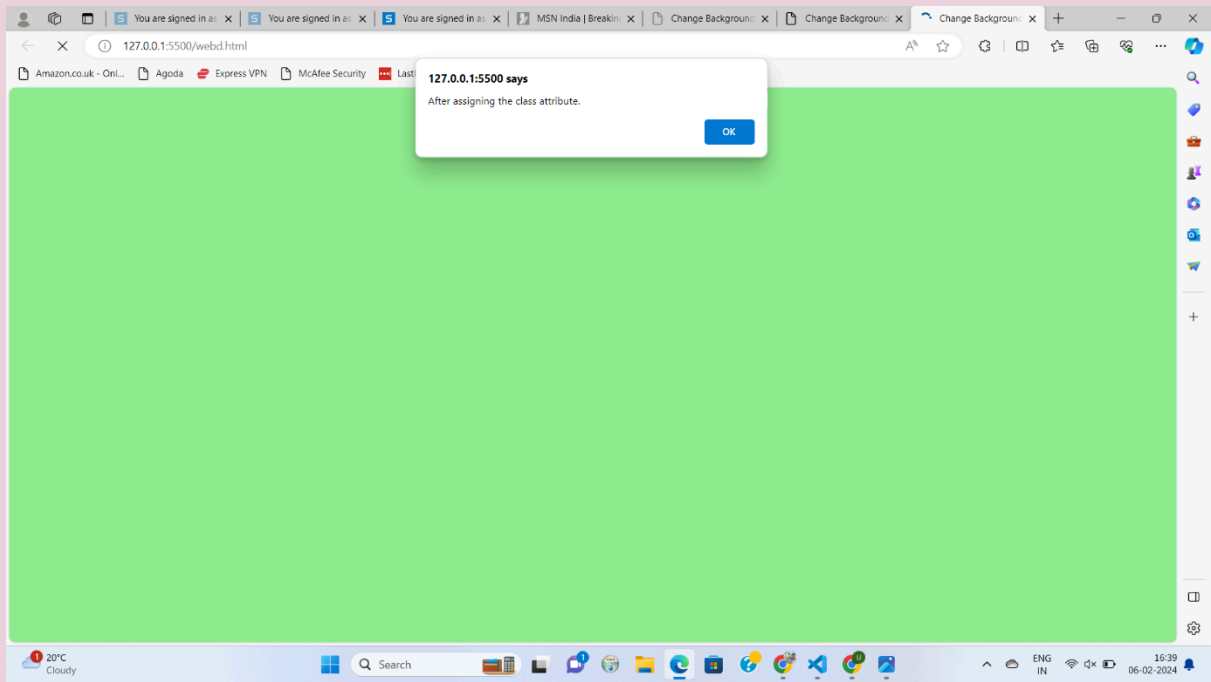
The status bar at the bottom indicates the current position is "Ln 26, Col 6" with "Spaces: 4". It also shows the encoding as "UTF-8", the language as "HTML", and the port as "Port: 3000". The system tray at the very bottom shows the date and time as "06-02-2024 16:39".

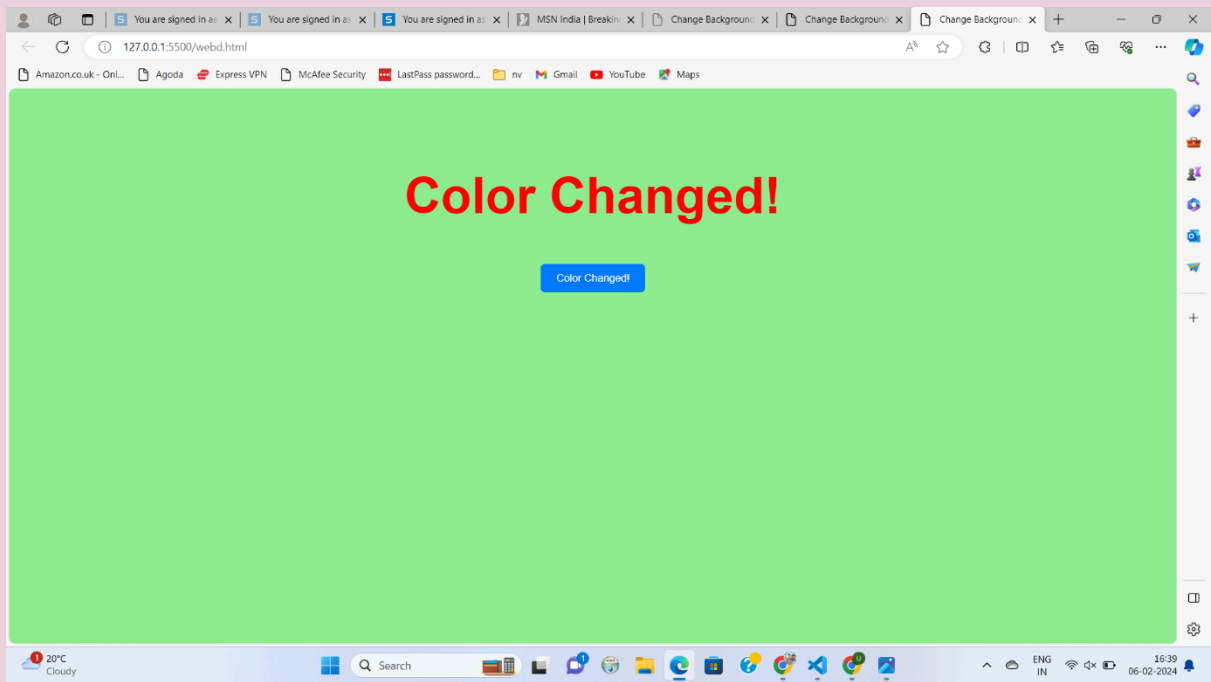
The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left displays a file tree for a project named 'nextflix-main'. The main editor area has three tabs open: 'web.html', 'styles.css', and 'script.js'. The 'styles.css' tab is active, showing the following CSS code:

```
22 border: none;
23 border-radius: 5px;
24 cursor: pointer;
25 transition: background-color 0.3s;
26
27 .btn:hover {
28   background-color: #0056b3;
29 }
30 .light-green-bg {
31   background-color: lightgreen;
32 }
33
34 </style>
35 </head>
36 <body>
37   <h1 id="heading">Change Background Color</h1>
38   <button id="colorBtn" class="btn">Change Color</button>
39 <script>
40   alert("Before assigning the class attribute.");
41   const colorBtn = document.getElementById('colorBtn');
42   const body = document.body;
43   const heading = document.getElementById('heading');
44   colorBtn.addEventListener('click', function() {
45     body.classList.add('light-green-bg');
46     heading.textContent = 'Color changed!';
47     colorBtn.textContent = 'Color changed!';
48   });
49   alert("After assigning the class attribute.");
50 </script>
51 </body>
52 </html>
```

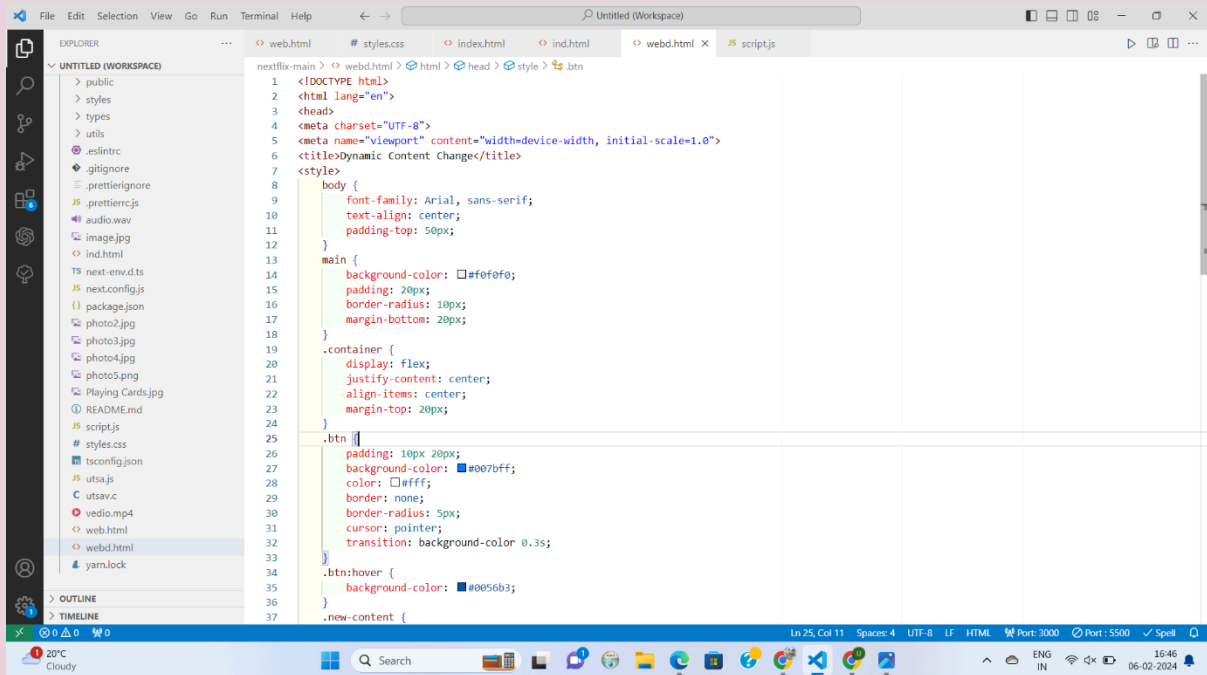
The status bar at the bottom indicates the current file is 'web.html' at line 26, column 6, with 4 spaces. The system tray shows the date as 06-02-2024 and time as 16:39.



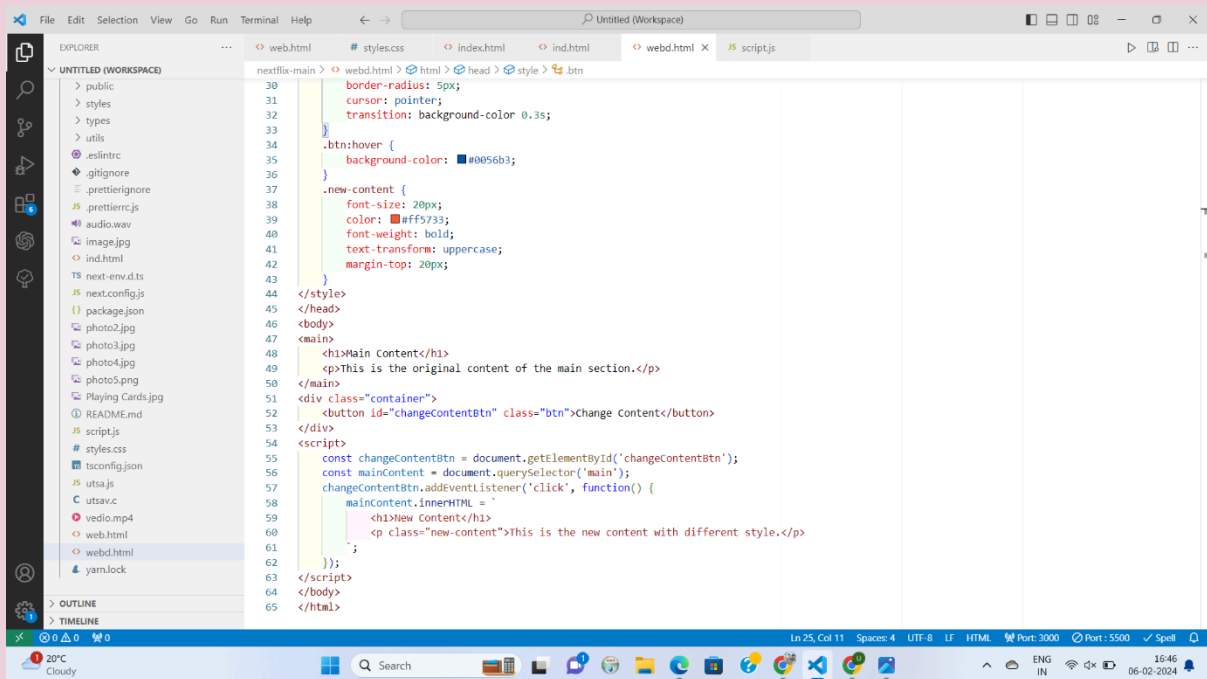




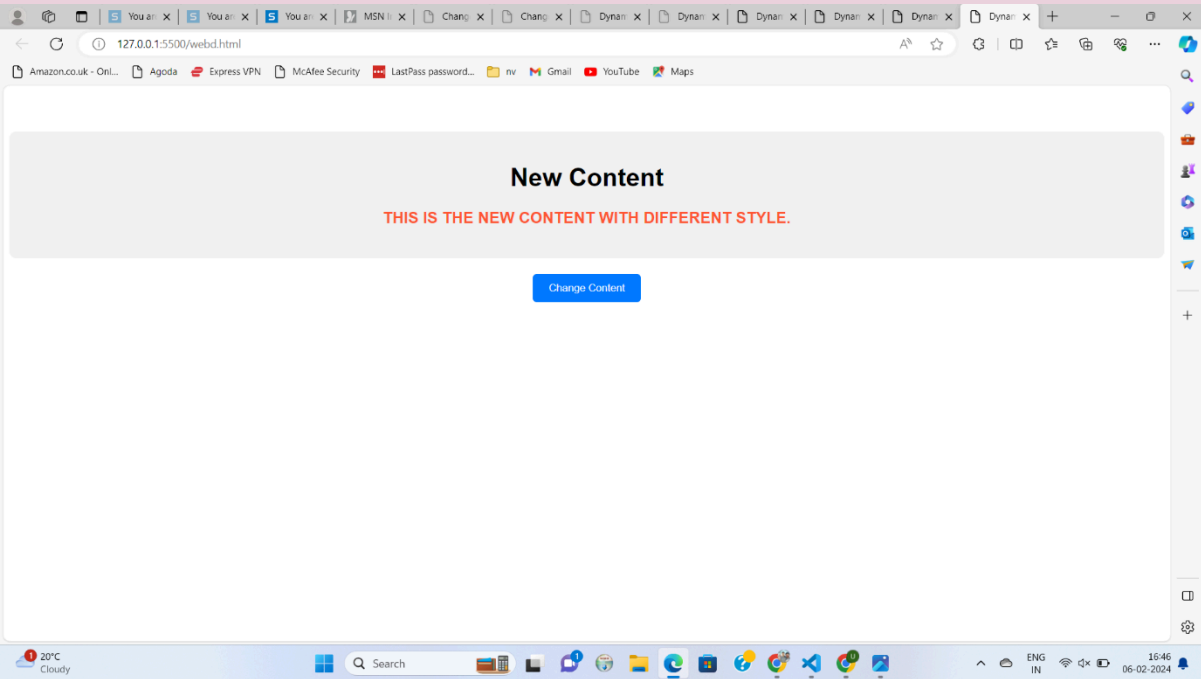
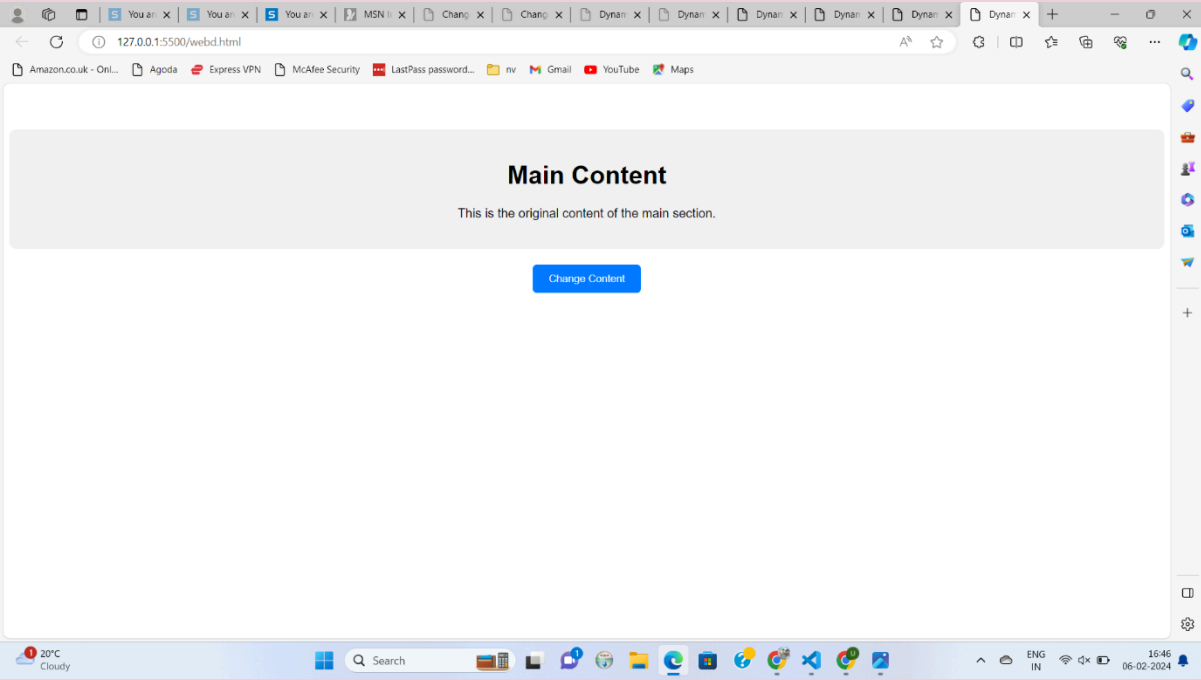
Task 4)



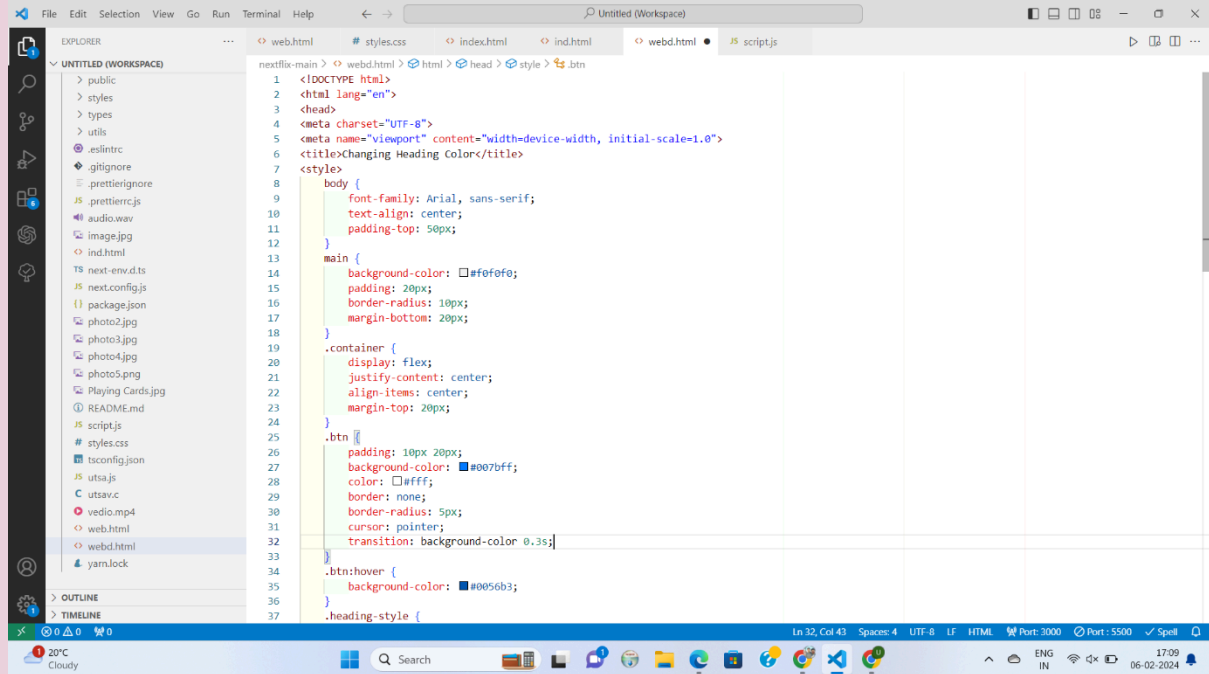
```
nextfilix-main > webd.html > html > head > style > .btn
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Dynamic Content Changes</title>
7 <style>
8   body {
9     font-family: Arial, sans-serif;
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 {
```



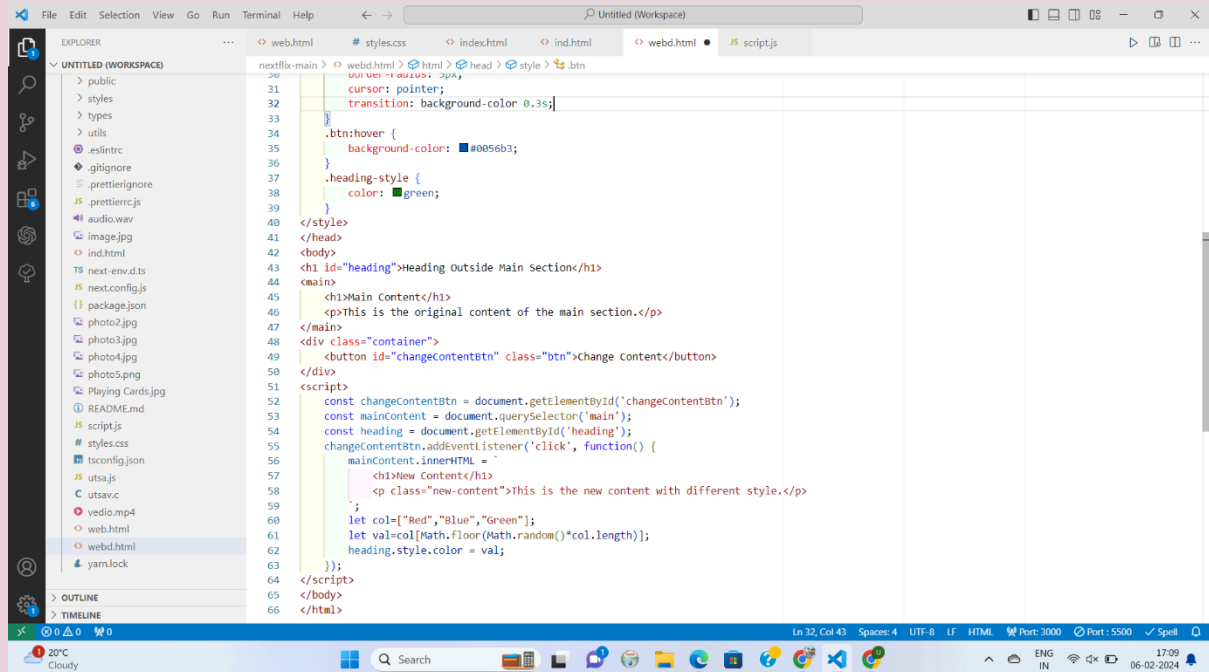
```
30    border-radius: 5px;
31    cursor: pointer;
32    transition: background-color 0.3s;
33  }
34  .btn:hover {
35    background-color: #0056b3;
36  }
37  .new-content {
38    font-size: 20px;
39    color: #ff5733;
40    font-weight: bold;
41    text-transform: uppercase;
42    margin-top: 20px;
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>
```



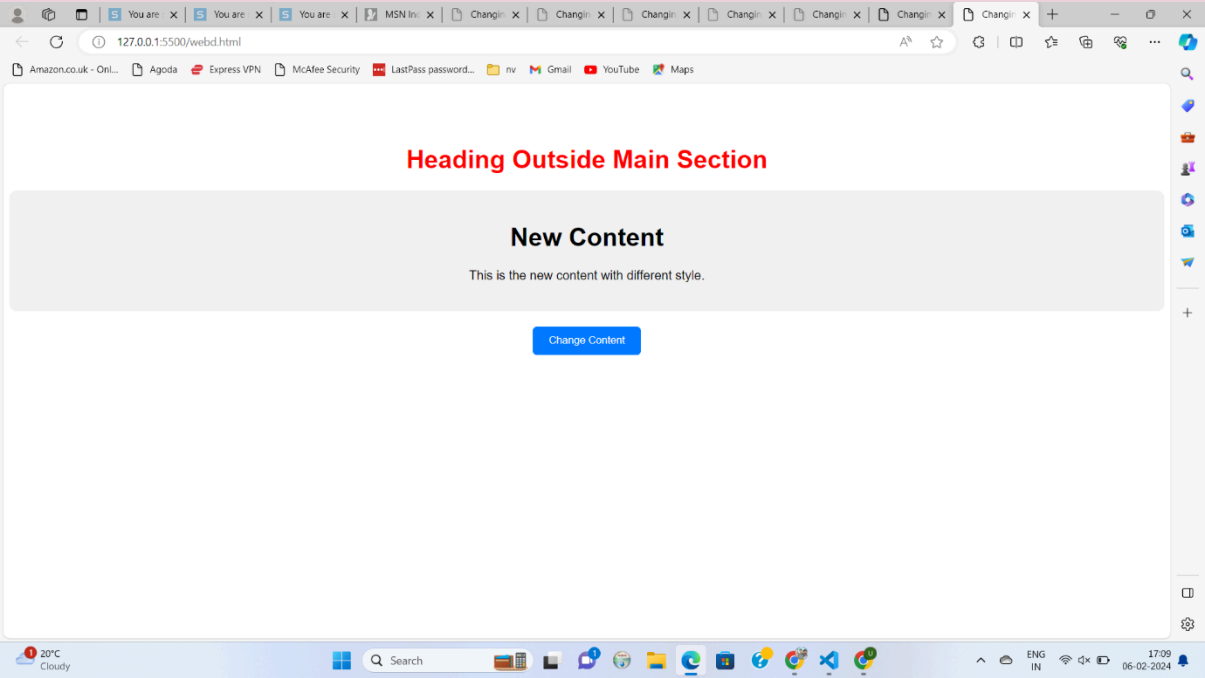
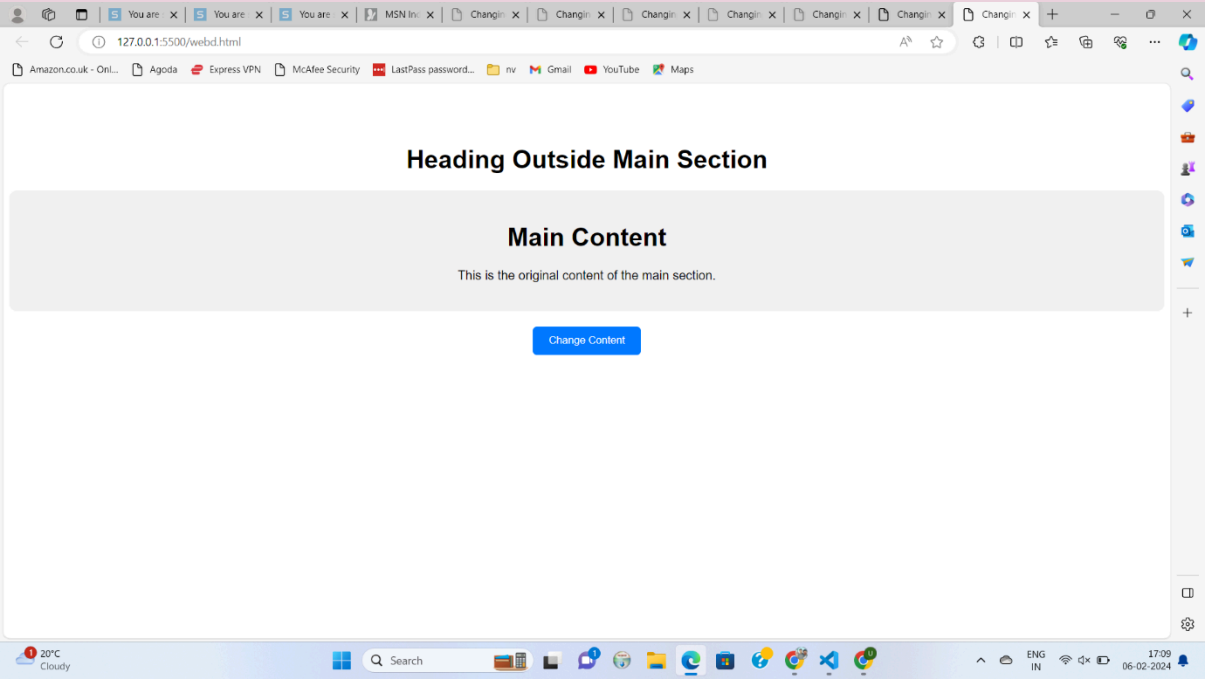
Task 5)

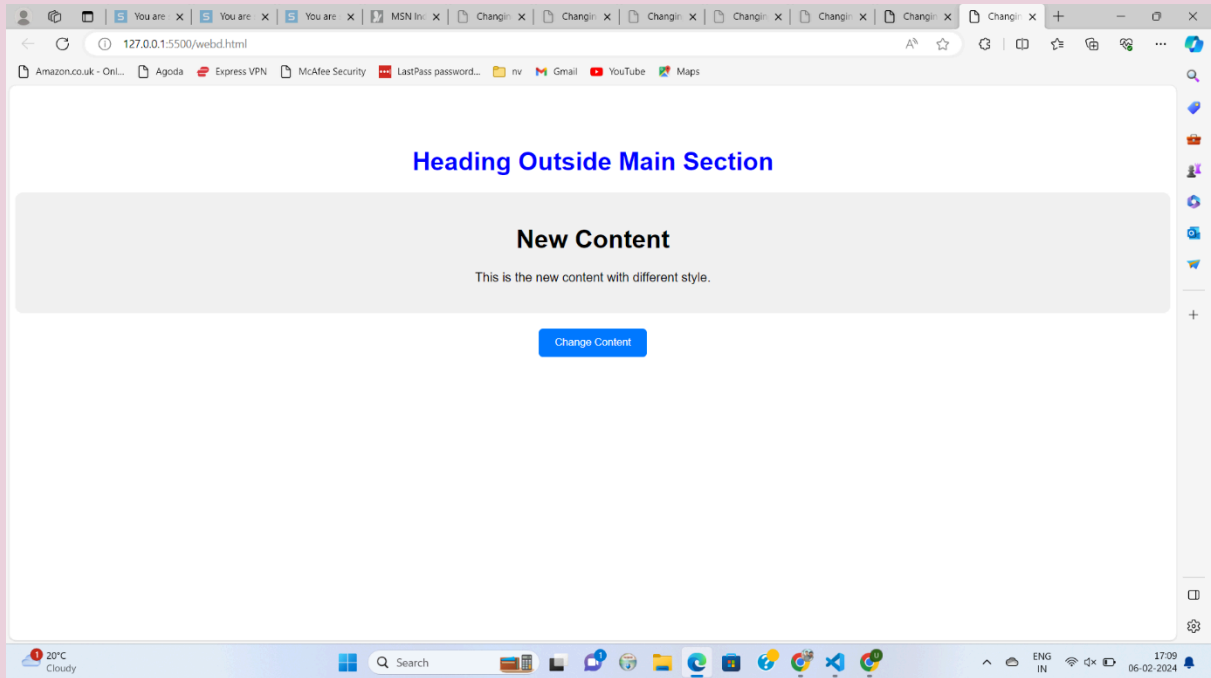


```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Changing Heading Color</title>
7 <style>
8   body {
9     font-family: Arial, sans-serif;
10    text-align: center;
11    padding-top: 50px;
12  }
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 {
```



```
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)

