

Web Technology

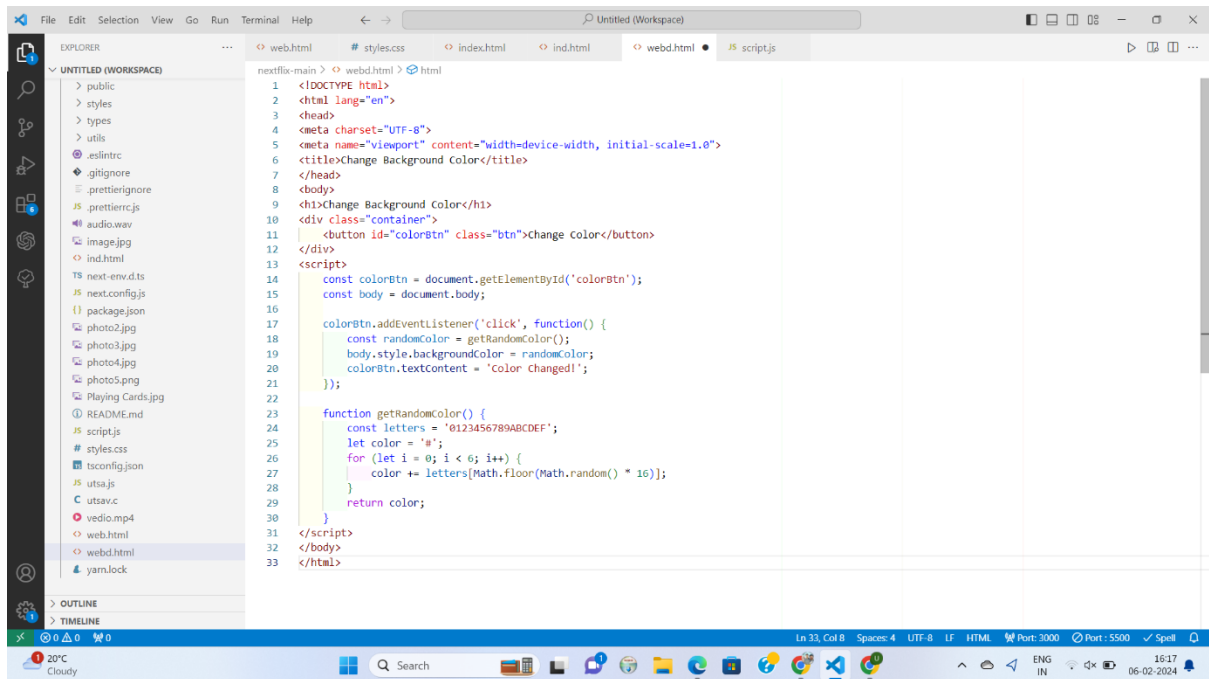
Lab Assignment – 04

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Branch :- CSE

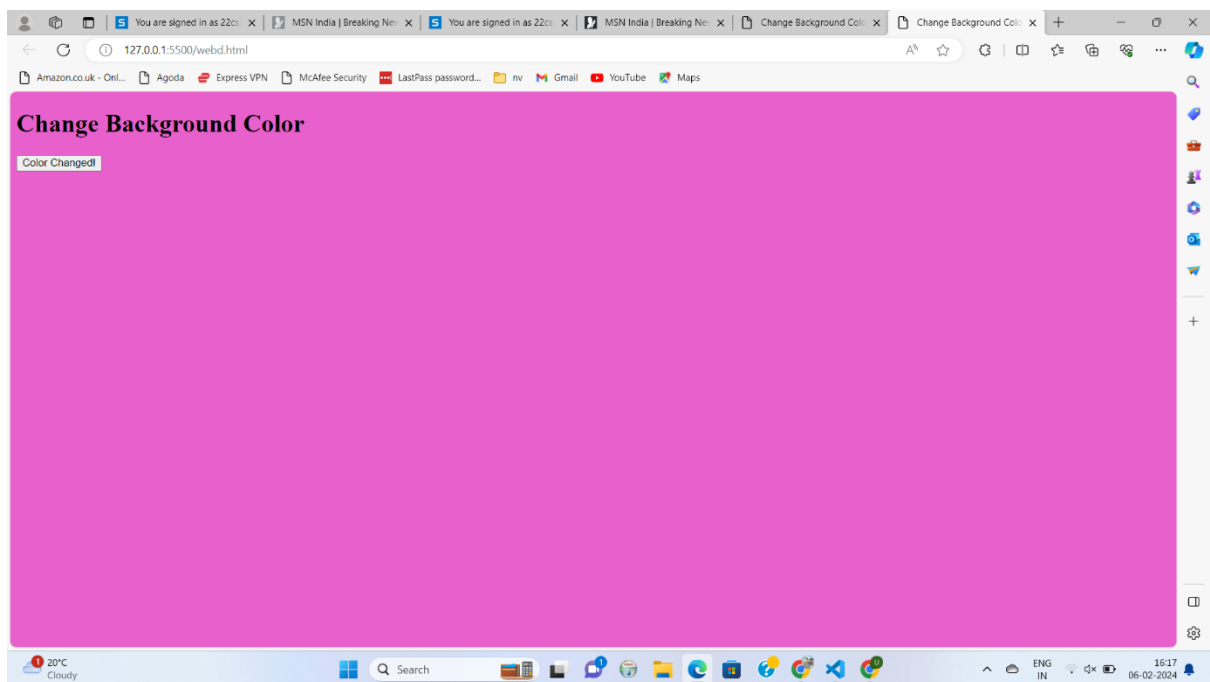
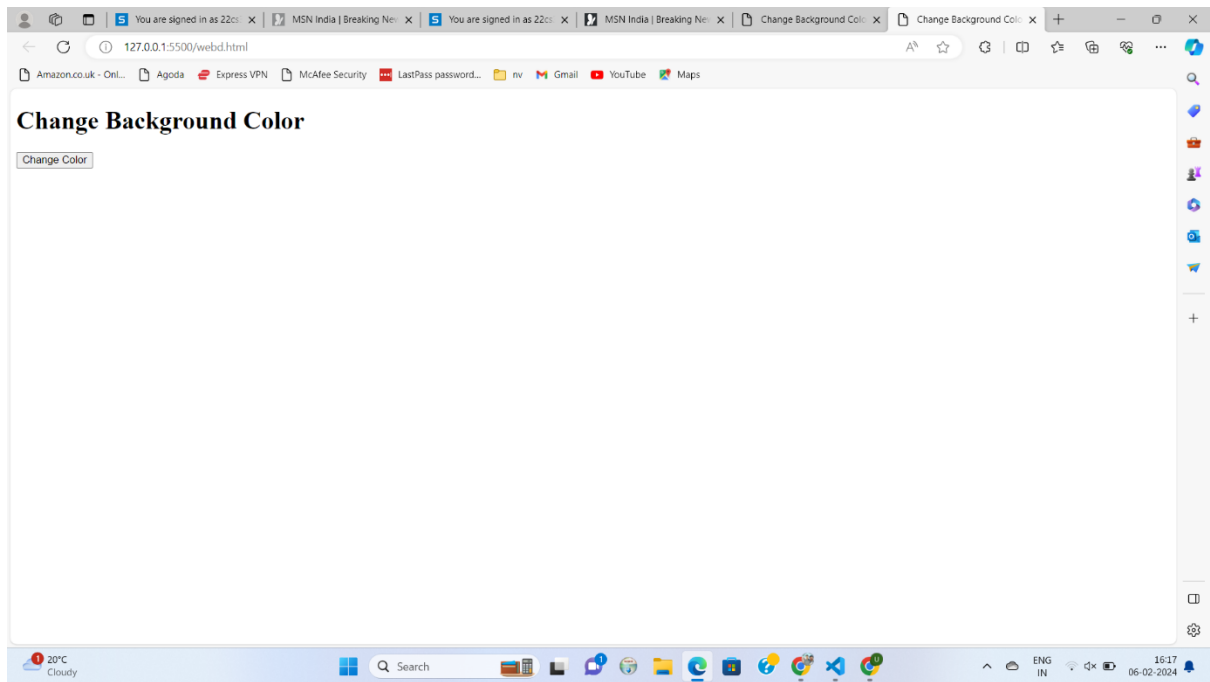
Task 1)



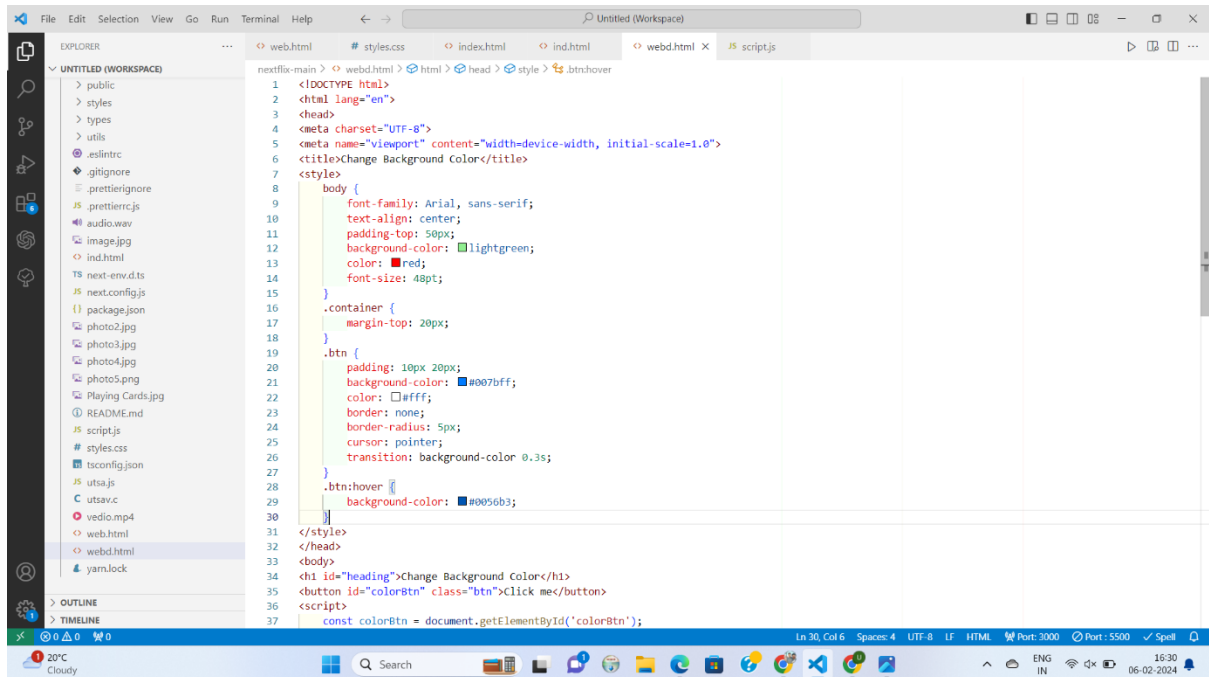
The screenshot shows a Visual Studio Code editor with a workspace named 'Untitled (Workspace)'. The Explorer panel on the left shows a file structure with folders like 'public', 'styles', 'types', 'utils', and files like '.eslintrc', '.gitignore', '.prettierrc', 'audio.wav', 'image.jpg', 'ind.html', '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 a file named 'webd.html' with the following HTML 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   <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>
```

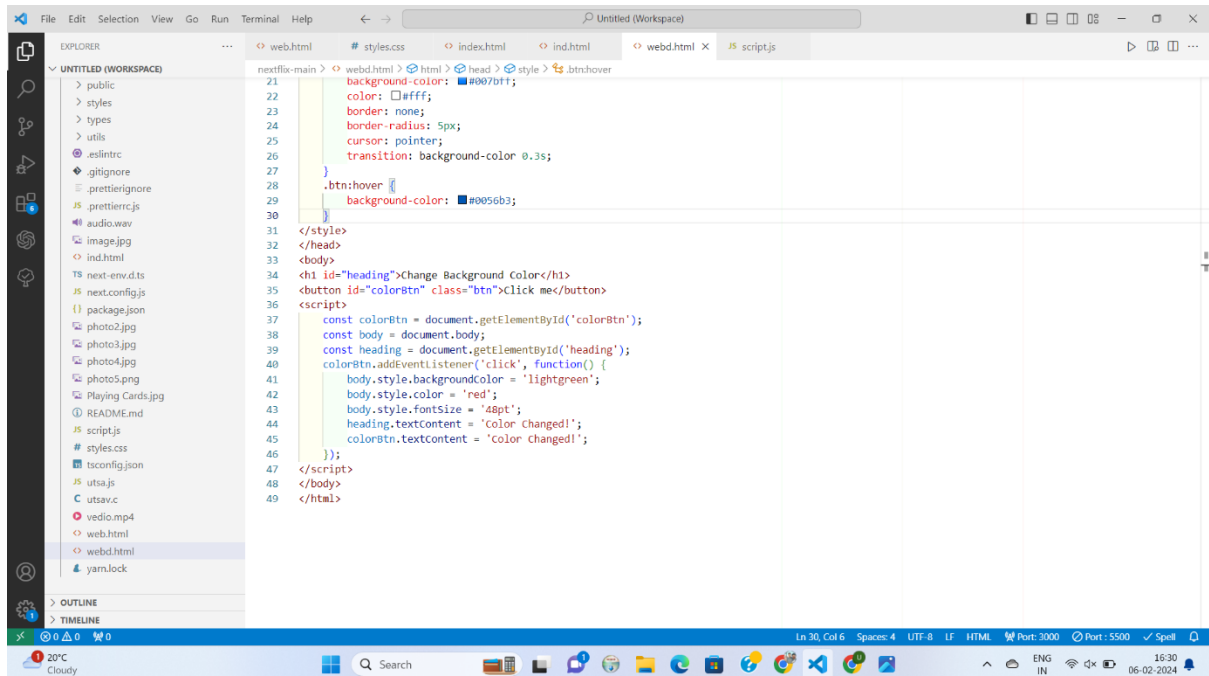
The status bar at the bottom shows 'Ln 33, Col 8', 'Spaces: 4', 'UTF-8', 'LF', 'HTML', 'Port: 3000', 'Port: 5500', and 'Spell'. The system tray at the bottom shows the date and time as '06-02-2024' and '16:17'.



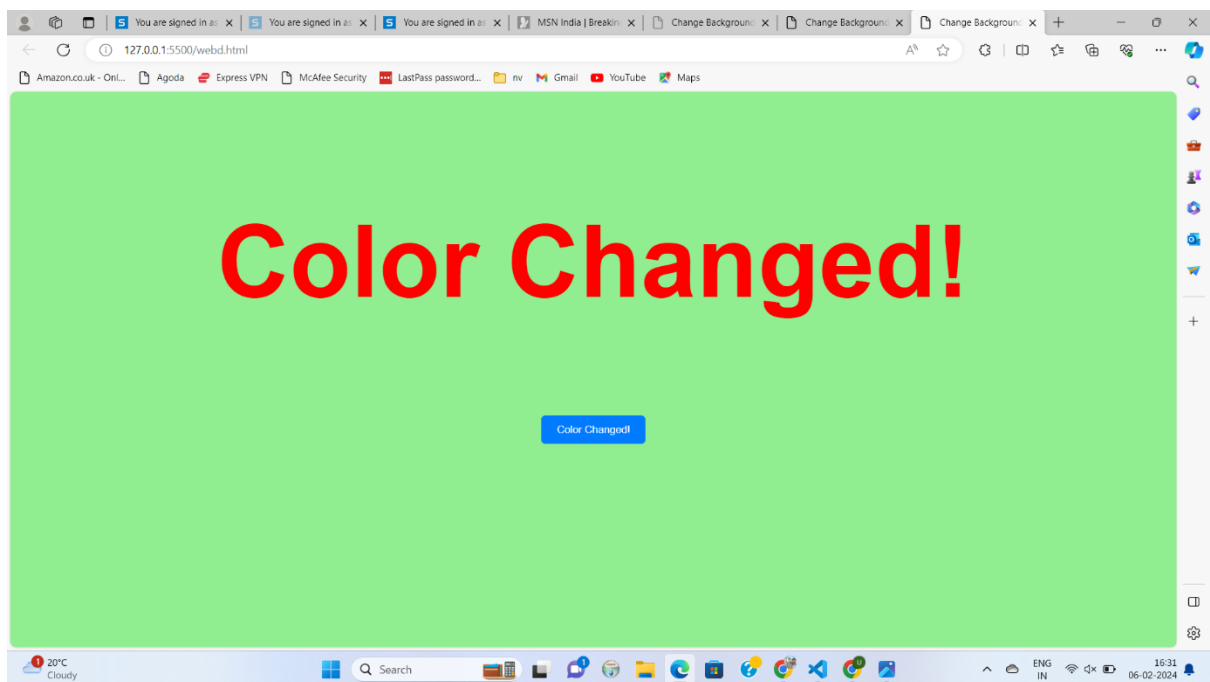
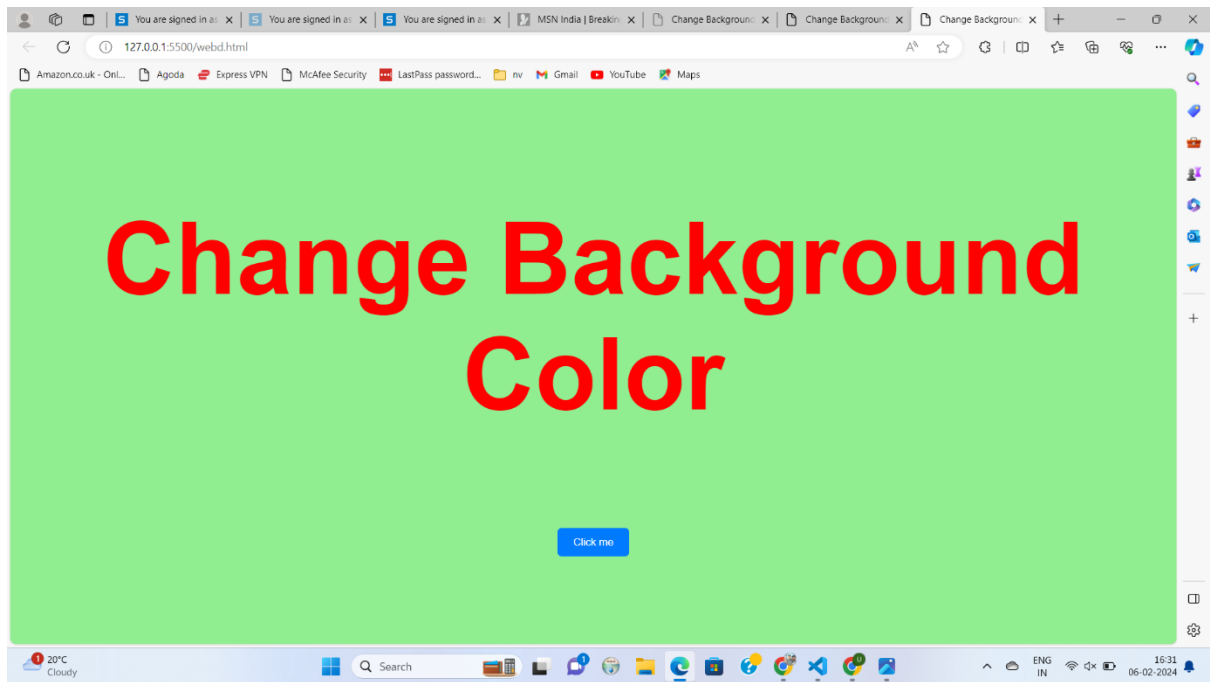
Task 2)



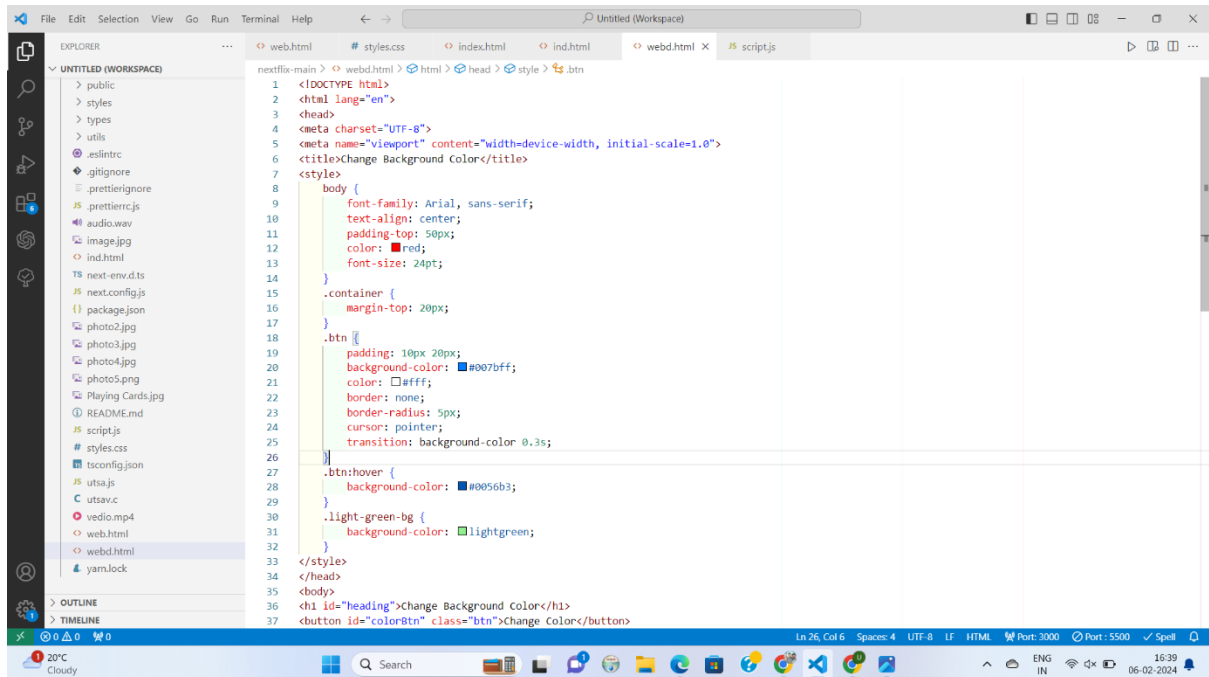
```
nextflix-main > webd.html > html > head > style > .btn: hover
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Change Background Color</title>
7 <style>
8   body {
9     font-family: Arial, sans-serif;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

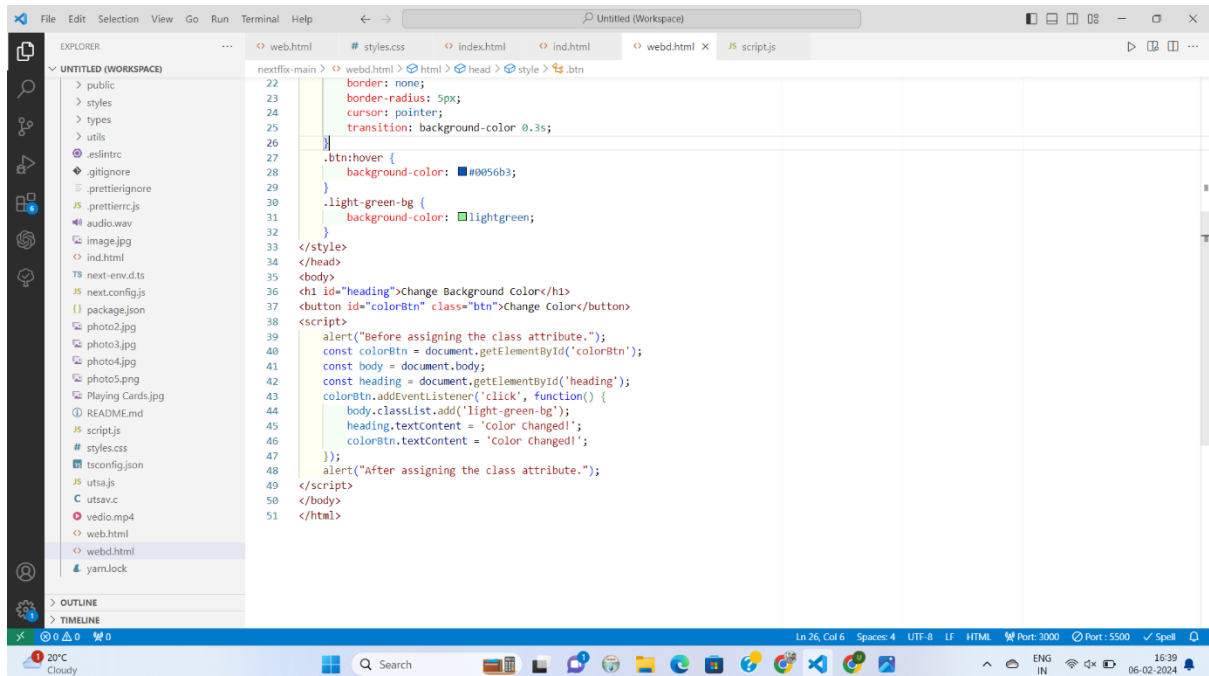


Task 3)



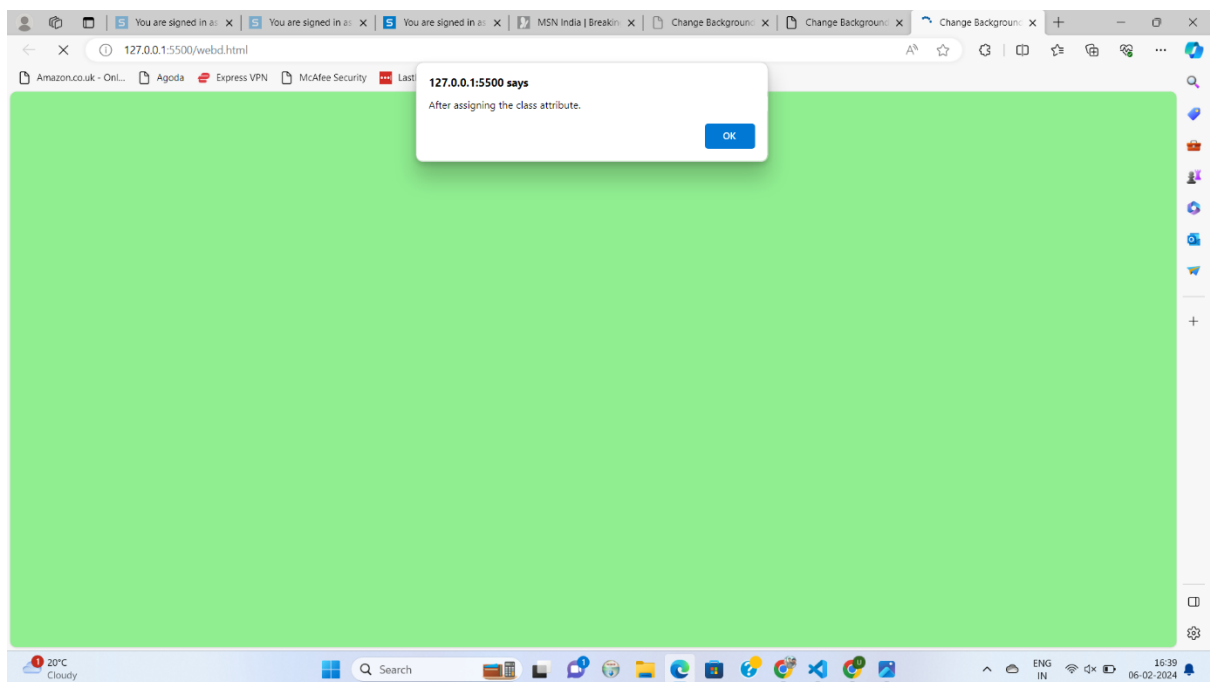
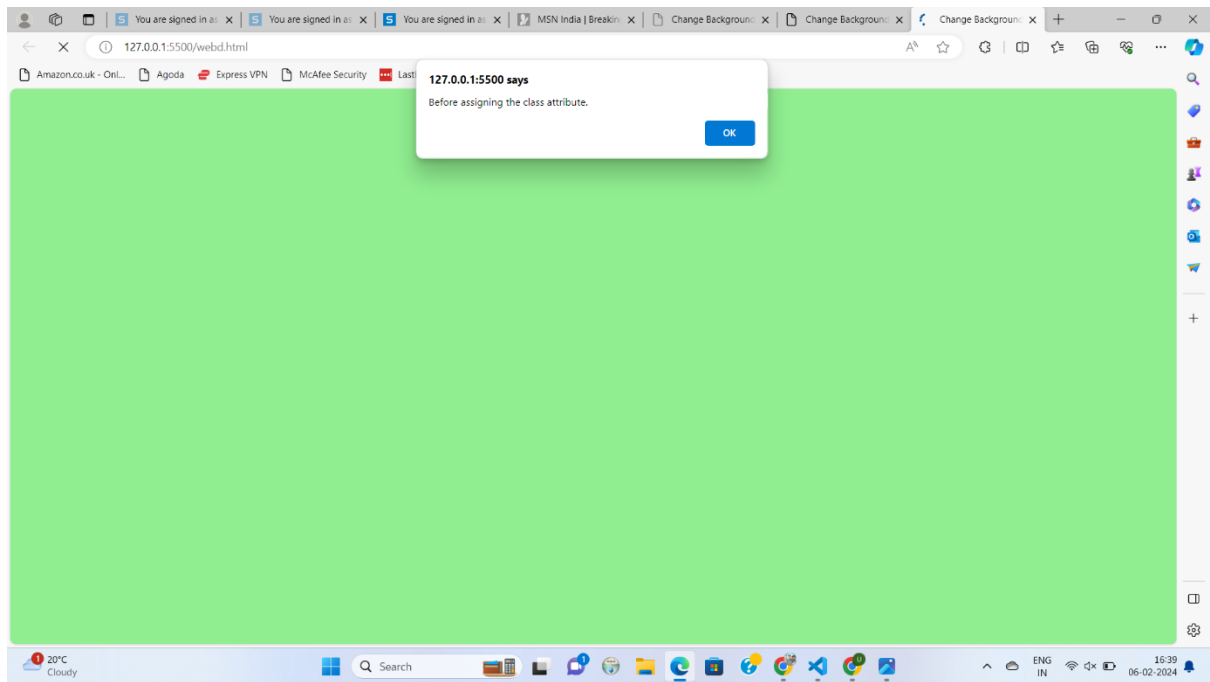
The screenshot shows the VS Code editor with a workspace named 'Untitled (Workspace)'. The Explorer panel on the left shows a file tree with various files and folders. The main editor area displays the following code:

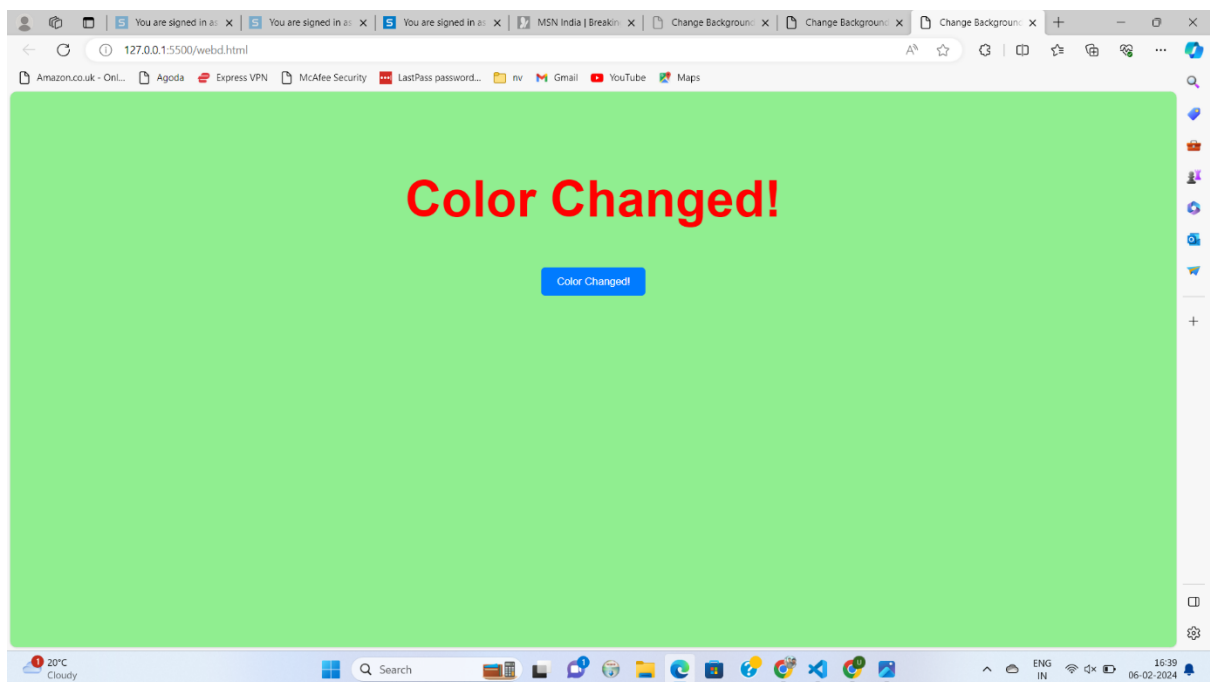
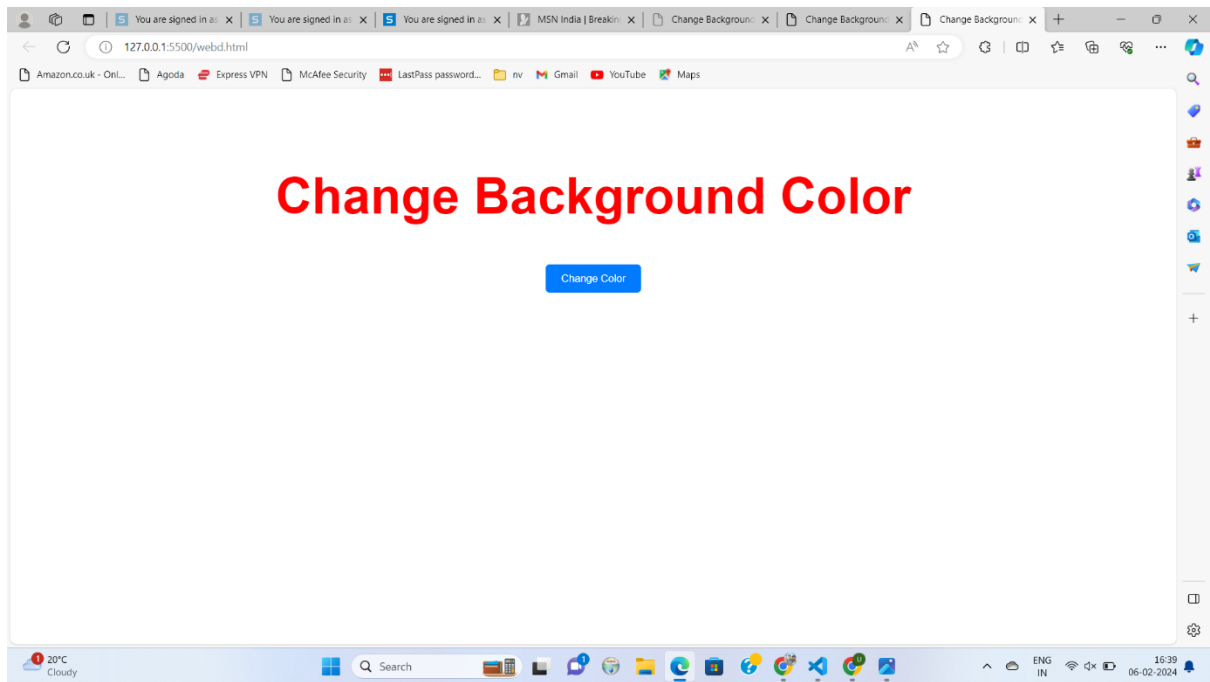
```
nextfix-main > webd.html > html > head > style > $.btn
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Change Background Color</title>
7 <style>
8   body {
9     font-family: Arial, sans-serif;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



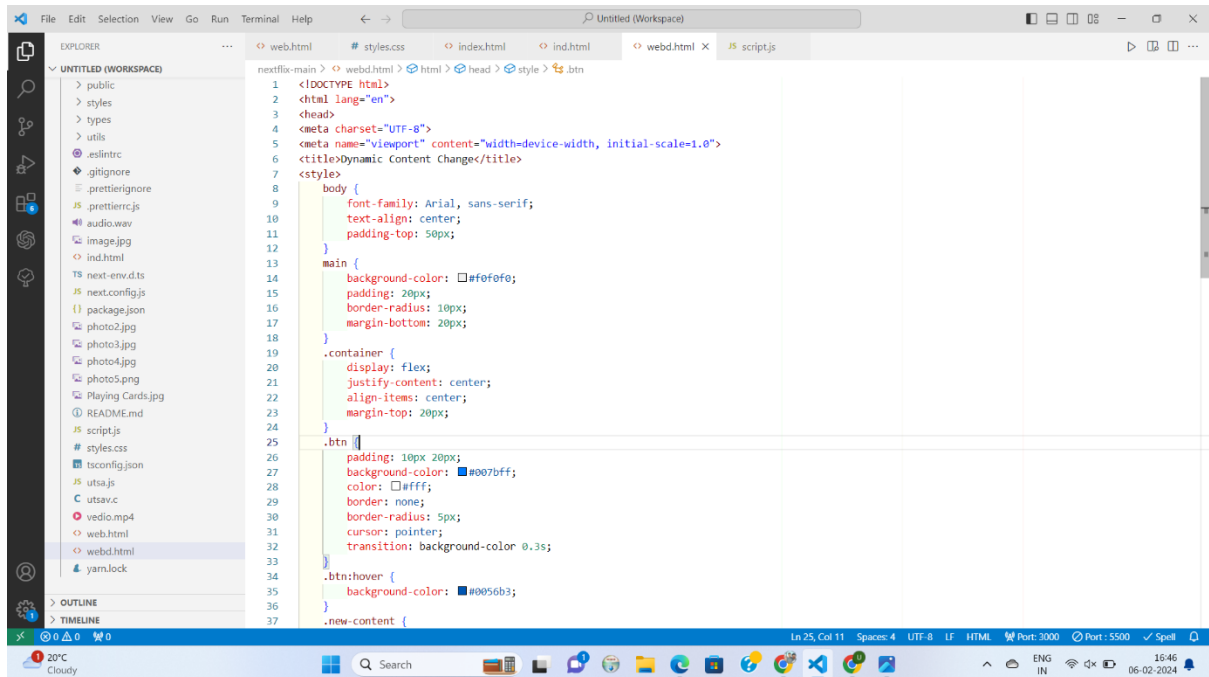
The screenshot shows the VS Code editor with the same workspace. The main editor area displays the following code:

```
nextfix-main > webd.html > html > head > style > $.btn
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>
38 <script>
39   alert("Before assigning the class attribute.");
40   const colorBtn = document.getElementById('colorBtn');
41   const body = document.body;
42   const heading = document.getElementById('heading');
43   colorBtn.addEventListener('click', function() {
44     body.classList.add('light-green-bg');
45     heading.textContent = 'Color changed!';
46     colorBtn.textContent = 'Color Changed!';
47   });
48   alert("After assigning the class attribute.");
49 </script>
50 </body>
51 </html>
```



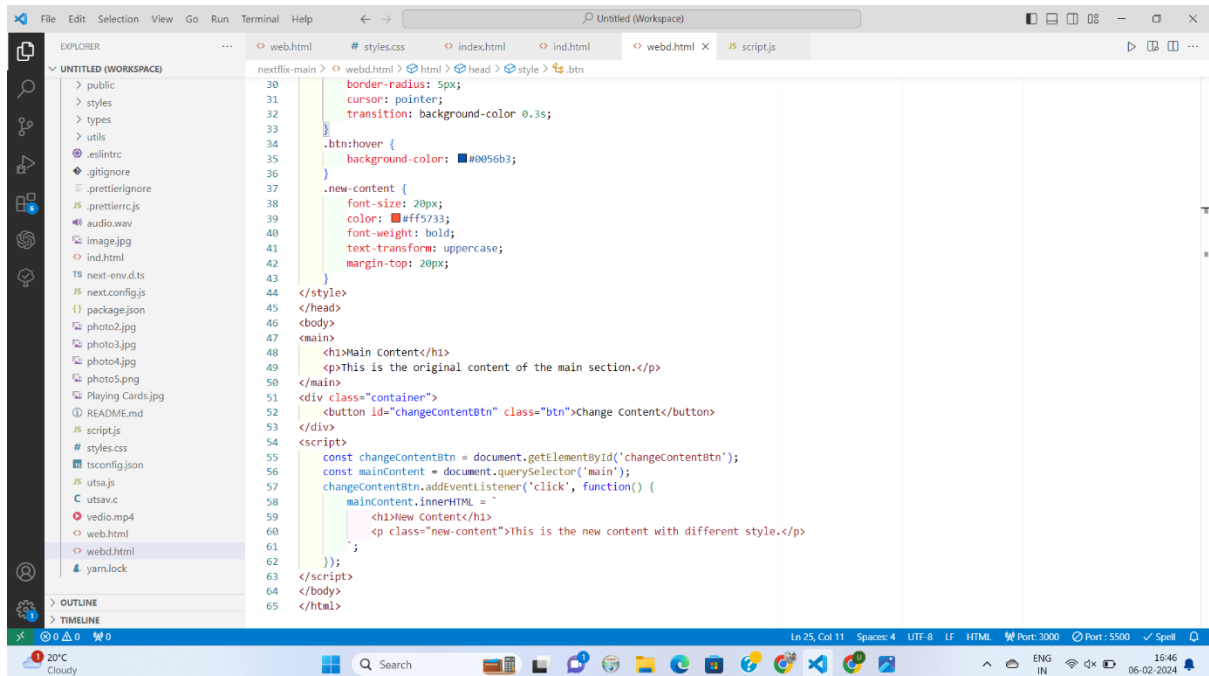


Task 4)



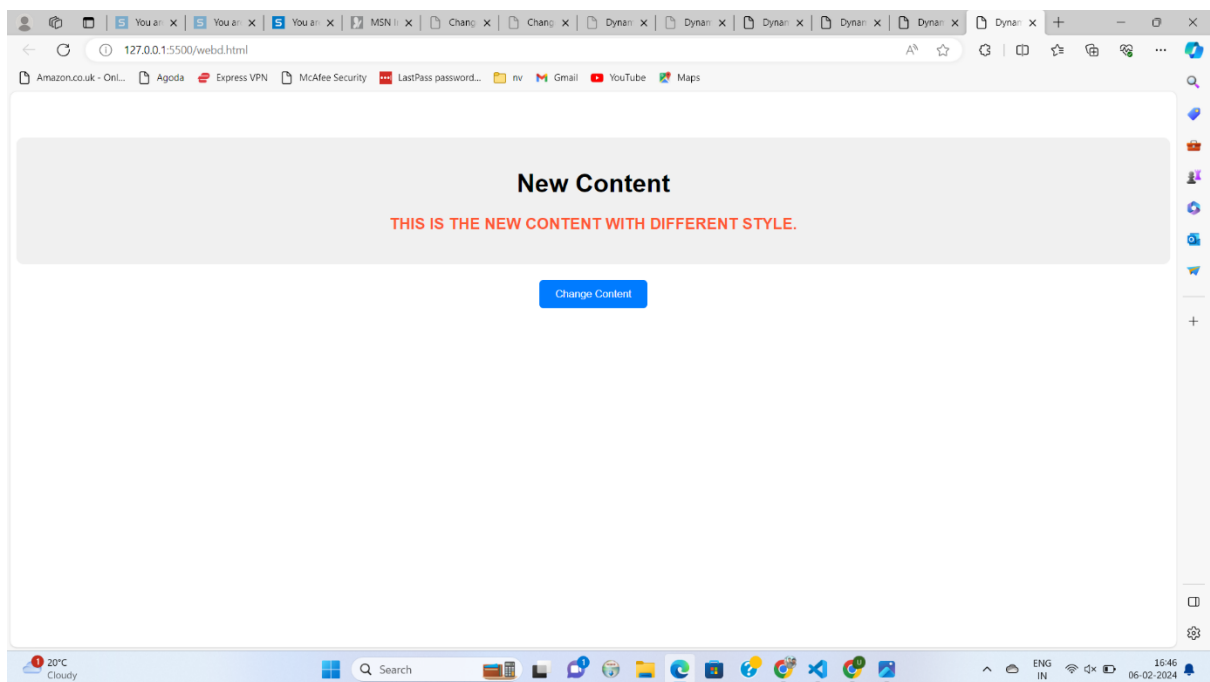
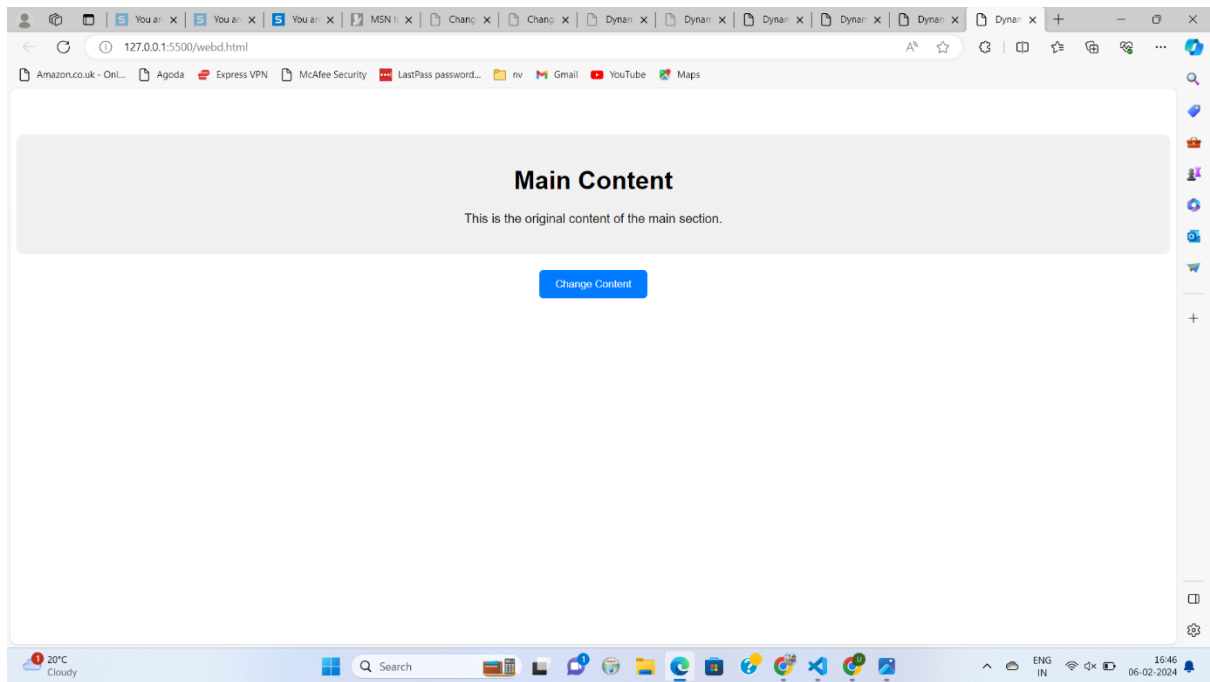
The screenshot shows the VS Code editor with a workspace named 'Untitled (Workspace)'. The Explorer panel on the left shows a file tree with folders like 'public', 'styles', and 'types', and files like 'index.html', 'ind.html', 'webd.html', and 'script.js'. The main editor area displays the 'styles.css' file with the following content:

```
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 {
```

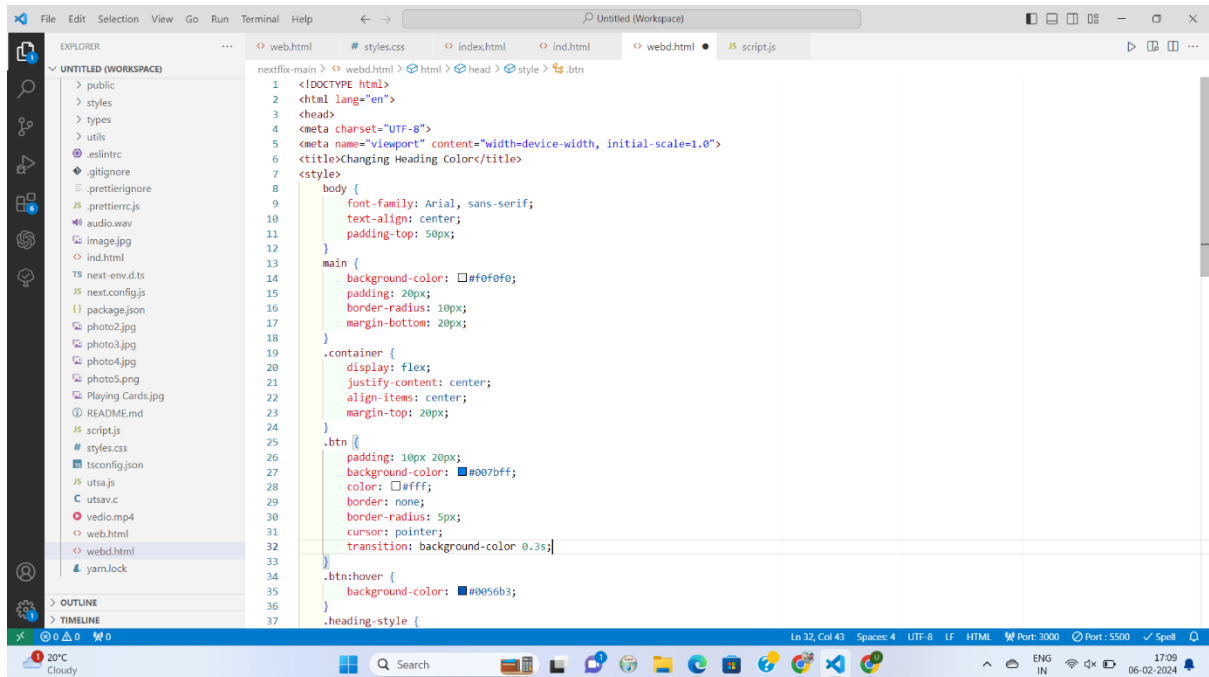


The screenshot shows the VS Code editor with the same workspace. The main editor area displays the 'index.html' file with the following content:

```
1 <!-- nextfix-main -->
2 <!-- webd.html -->
3 <!-- html -->
4 <!-- head -->
5 <!-- style -->
6 <!-- btn -->
7
8 <!-- btn: hover -->
9
10 <!-- new-content -->
11
12 </style>
13 </head>
14 <body>
15 <main>
16   <h1>Main Content</h1>
17   <p>This is the original content of the main section.</p>
18 </main>
19 <div class="container">
20   <button id="changeContentBtn" class="btn">Change Content</button>
21 </div>
22 <script>
23   const changeContentBtn = document.getElementById('changeContentBtn');
24   const mainContent = document.querySelector('main');
25   changeContentBtn.addEventListener('click', function() {
26     mainContent.innerHTML = `
27       <h1>New Content</h1>
28       <p class="new-content">This is the new content with different style.</p>
29     `;
30   });
31 </script>
32 </body>
33 </html>
```

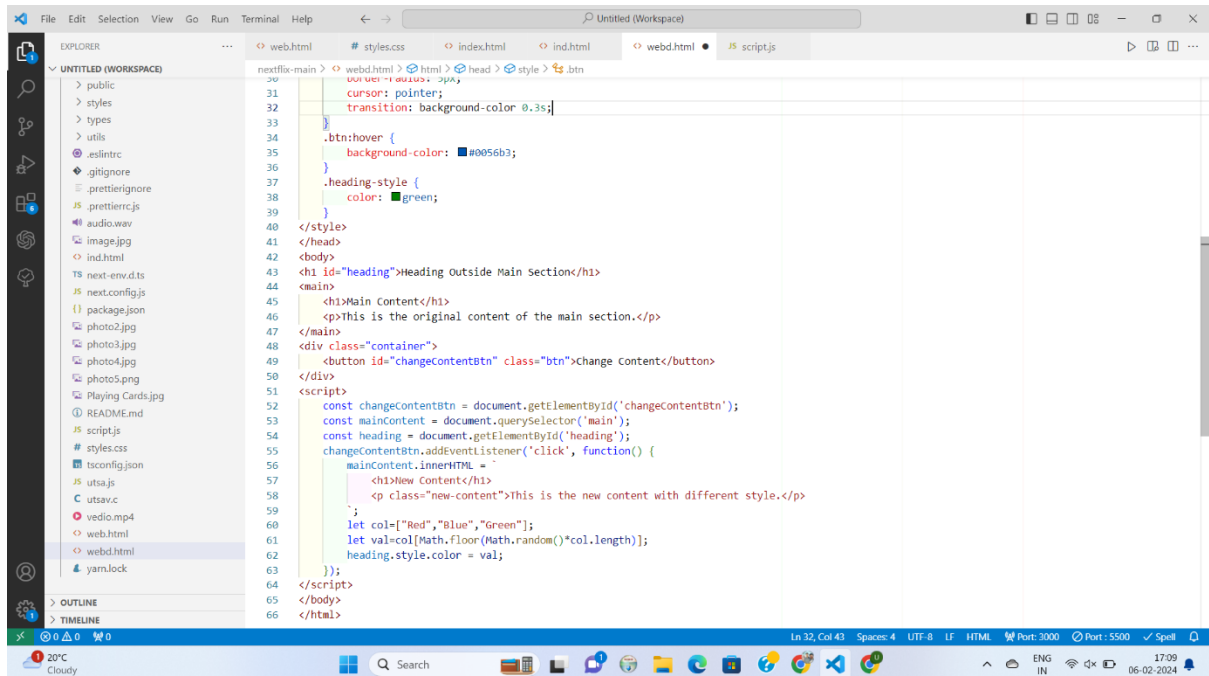



Task 5)



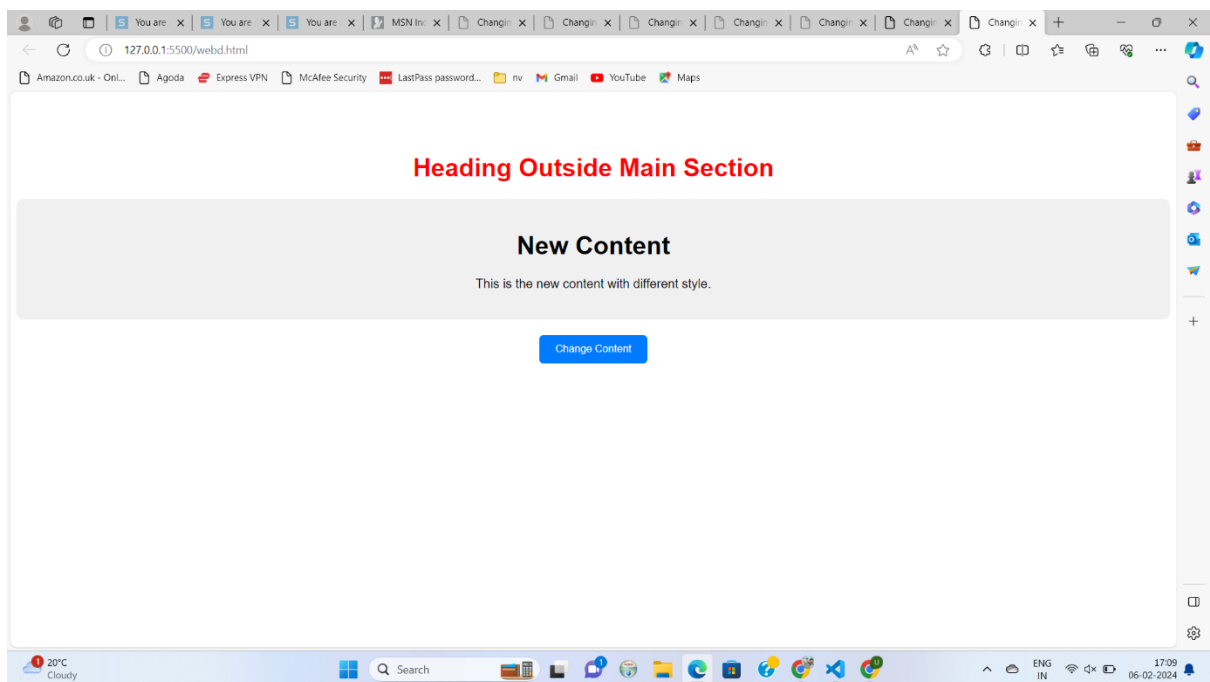
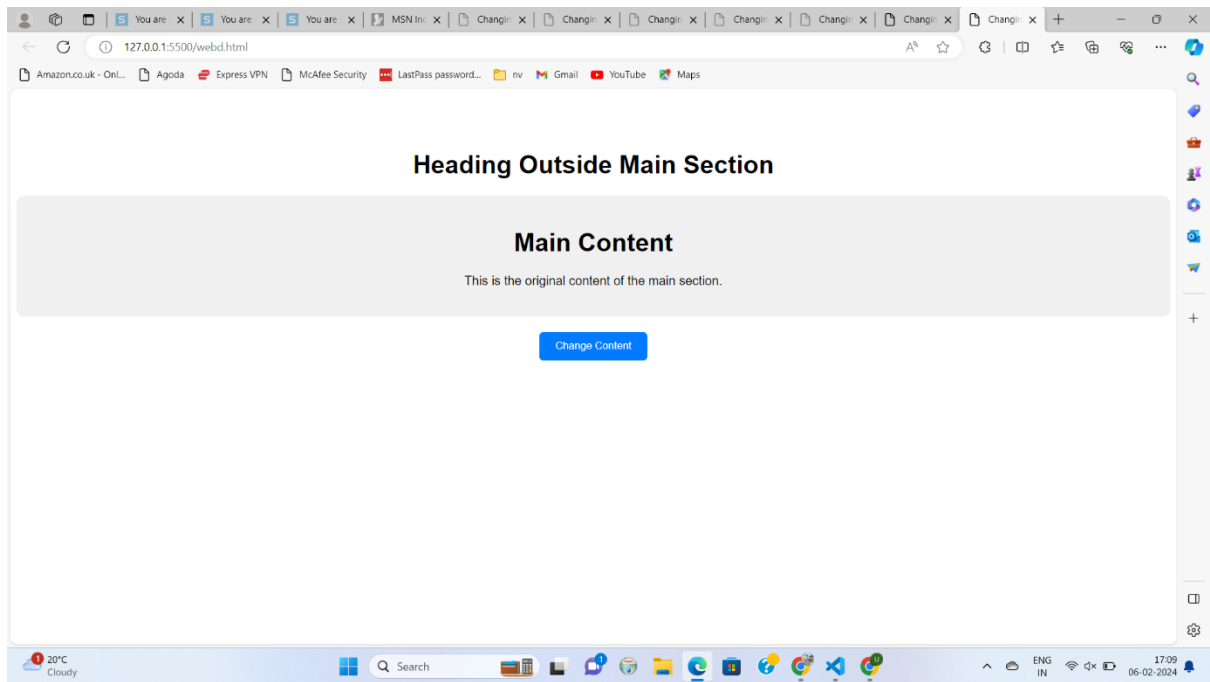
The screenshot shows the VS Code editor with a workspace named 'Untitled (Workspace)'. The Explorer panel on the left shows a file structure with folders like 'public', 'styles', and 'types', and files like 'index.html', 'style.css', and 'script.js'. The main editor area displays the following code:

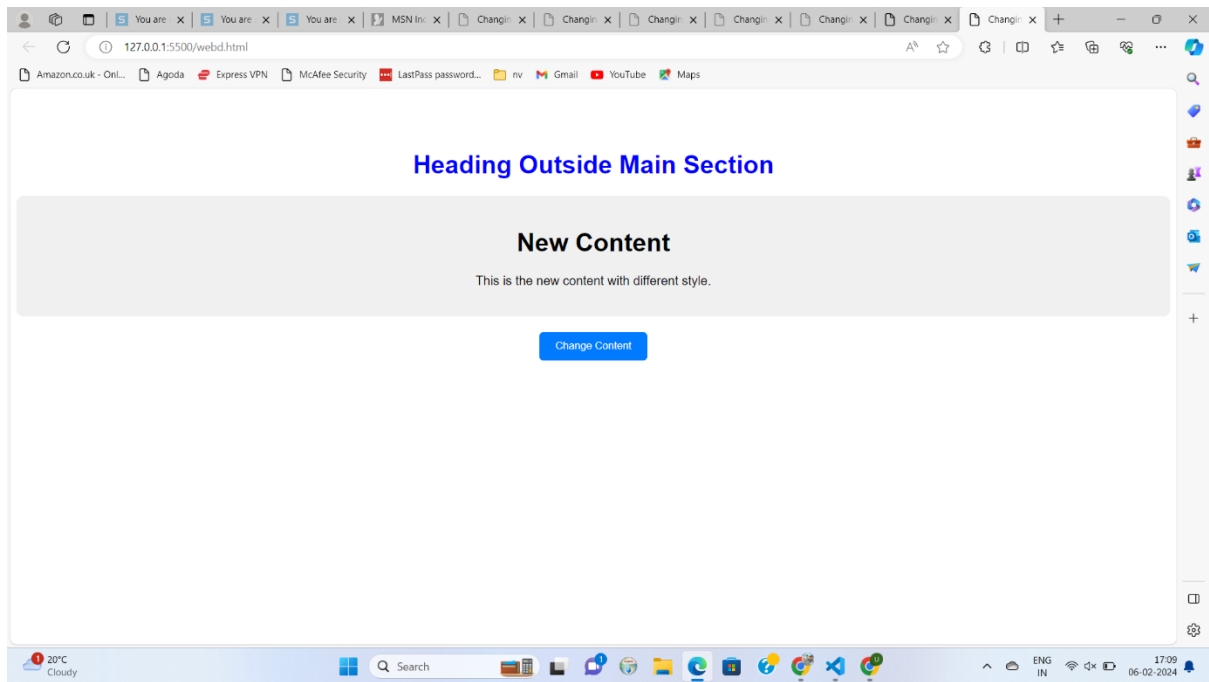
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Changing Heading Color</title>
7 <style>
8   body {
9     font-family: Arial, sans-serif;
10    text-align: center;
11    padding-top: 50px;
12  }
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 same workspace. The main editor area displays the following 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     <h1>New Content</h1>
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)

