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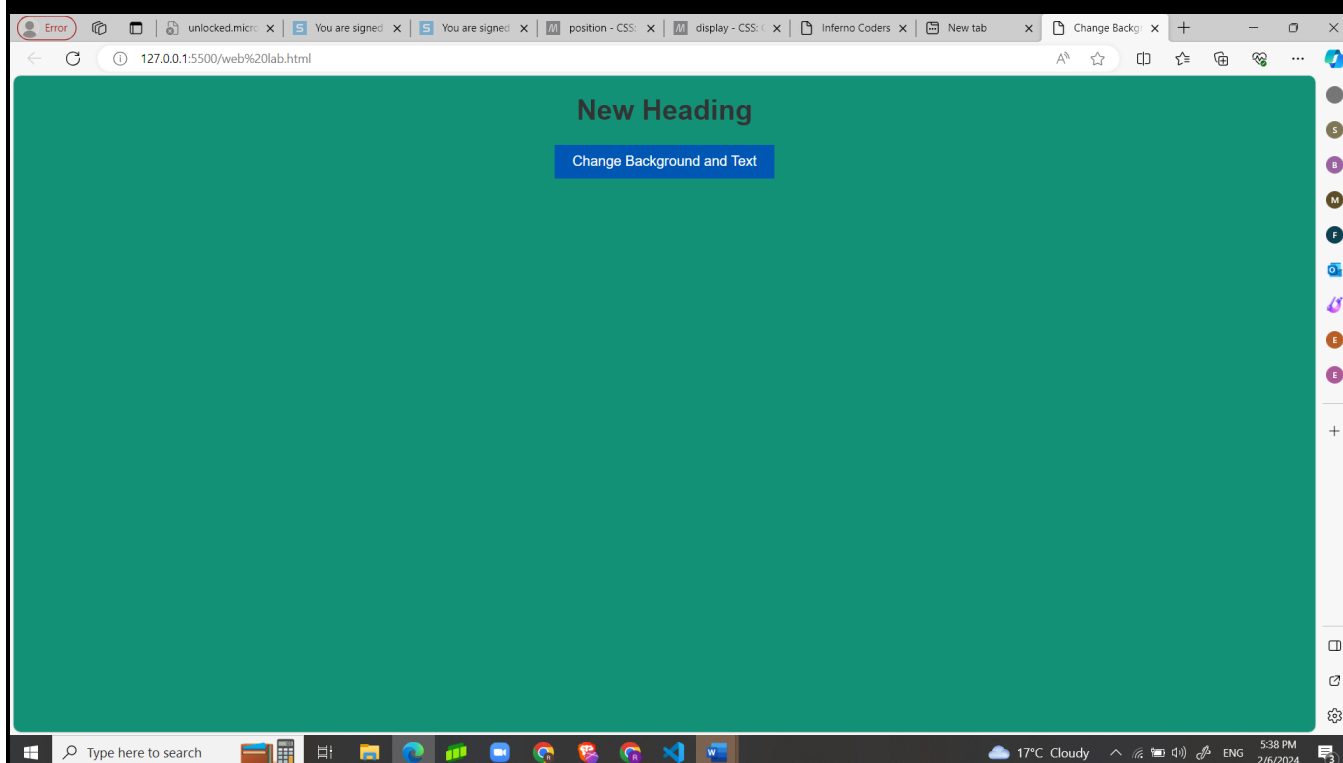
**Q1.** `<!DOCTYPE html>`

```
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Change Background Color and Text</title>
<style>
  body {
    font-family: Arial, sans-serif;
    text-align: center;
    background-color: #f0f0f0; /* Default background color */
    transition: background-color 0.5s ease;
  }
  h1 {
    color: #333; /* Default text color */
  }
  button {
    padding: 10px 20px;
    font-size: 16px;
    background-color: #007bff;
    color: #fff;
    border: none;
    cursor: pointer;
    transition: background-color 0.3s ease;
  }
  button:hover {
    background-color: #0056b3;
  }
</style>
</head>
<body>
<h1 id="heading">Original Heading</h1>
<button id="changeButton">Change Background and Text</button>
```

```
<script>
  // JavaScript to change background color and text when button is clicked
  document.getElementById('changeButton').addEventListener('click', function() {
    // Generate a random hexadecimal color code
    var randomColor = '#' + Math.floor(Math.random()*16777215).toString(16);

    // Set the background color to the random color
    document.body.style.backgroundColor = randomColor;

    // Change the text of the heading
    document.getElementById('heading').textContent = 'New Heading';
  });
</script>
</body>
</html>
```



## Q2.

```
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: #333; /* Default text color */
16  }
17  button {
18    padding: 10px 20px;
19    font-size: 16px;
20    background-color: #007bff;
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>
```

```
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 = 'lightgreen';
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>
```

# Modified Heading

Change Background and Text

### Q3.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Change Background Color and Text</title>
</style>
  body.lightgreen {
    background-color: lightgreen; /* a. Make the background light green */
  }
  h1 {
    color: black;
    font-size: 24px;
  }
  .red-text {
    color: red; /* b. Add a line that makes the text red */
  }
</style>
</head>
<body>

  <h1 id="heading">Welcome to My Page</h1>
  <button id="changeBtn">Change Color and Text</button>

</script>
  alert("Before assigning class attribute");

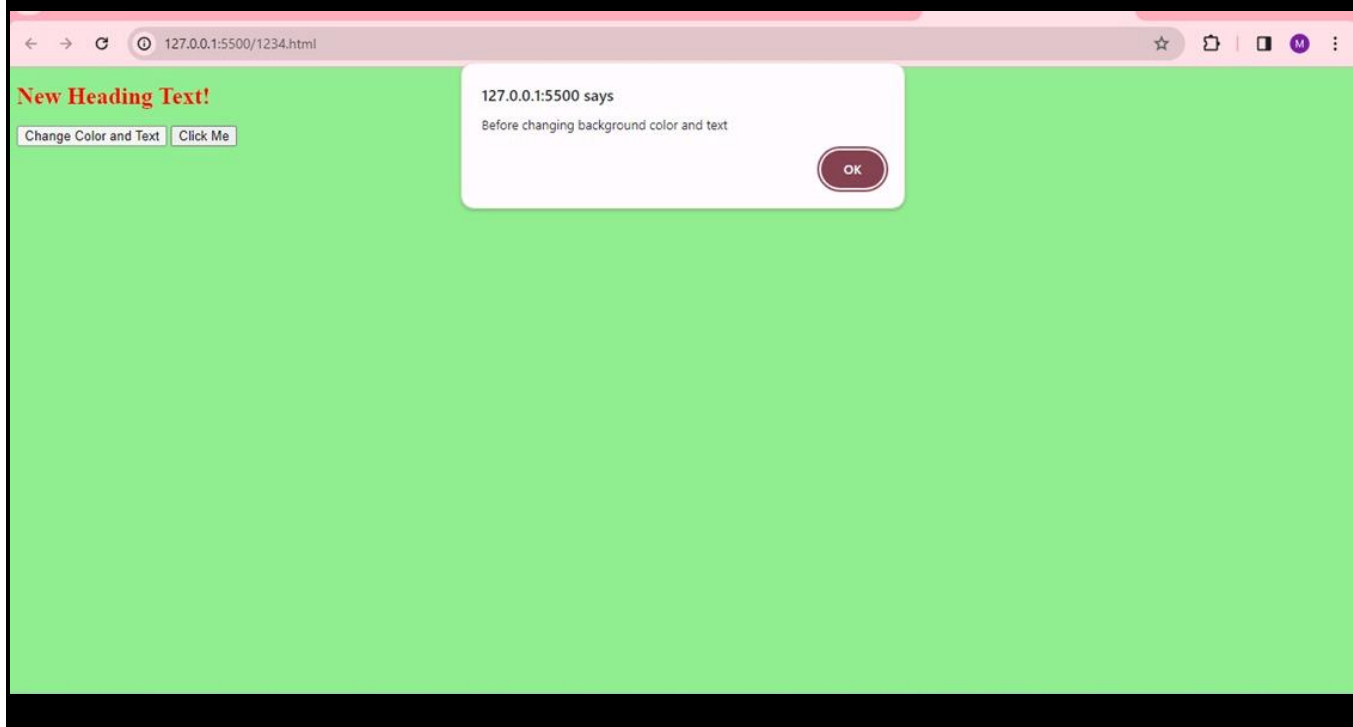
  document.getElementById('changeBtn').addEventListener('click', function() {
    alert("Before changing background color and text");

    var body = document.body;
    var heading = document.getElementById('heading');
```

Ln 53 Col 1 Spaces 4 UTF-8



```
25 <script>
26   alert("Before assigning class attribute");
27
28   document.getElementById('changeBtn').addEventListener('click', function() {
29     alert("Before changing background color and text");
30
31     var body = document.body;
32     var heading = document.getElementById('heading');
33
34     // Change background color
35     body.classList.add('lightgreen');
36
37     // Change text color
38     heading.classList.add('red-text');
39
40     // Change text
41     heading.textContent = 'New Heading Text!'; // d. Change the wording inside the <h1> tag
42
43     alert("After changing background color and text");
44   });
45
46   alert("After assigning class attribute");
47 </script>
48
49 <button>Click Me</button> <!-- e. Add <button>Click Me</button> after the closing </h1>. -->
50
51 </body>
52 </html>
53
```



## Q4.

```
30 }
31 #content2 {
32   font-size: 24px;
33   line-height: 1.8;
34   color: #0066cc;
35   text-align: center;
36 }
37 button {
38   padding: 10px 20px;
39   font-size: 16px;
40   cursor: pointer;
41   background-color: #0066cc;
42   color: #fff;
43   border: none;
44   border-radius: 5px;
45   transition: background-color 0.3s ease, color 0.3s ease;
46 }
47 button:hover {
48   background-color: #004080;
49 }
50 </style>
51 </head>
52 <body>
53
54 <header>
55   <h1>Dynamic Content Change</h1>
56 </header>
57
58 <main>
59   <section id="mainContent">
60     <div id="content1">
61       <h2>Main Content Section</h2>
```



```

56 </header>
57
58 <main>
59   <section id="mainContent">
60     <div id="content1">
61       <h2>Main Content Section</h2>
62       <p>This is the initial content of the main section. Click the button below to change it.</p>
63     </div>
64   </section>
65 </main>
66
67 <button id="changeContentBtn">Change Content</button>
68
69 <script>
70   document.getElementById('changeContentBtn').addEventListener('click', function() {
71     var mainContent = document.getElementById('mainContent');
72
73     // Replace content of main section
74     mainContent.innerHTML = `
75       <div id="content2">
76         <h2>New Content Section</h2>
77         <p>This is the new content of the main section with different styles.</p>
78       </div>
79     `;
80   });
81 </script>
82
83 </body>
84 </html>
85

```

127.0.0.1:5500/1234.html

## Dynamic Content Change

### New Content Section

This is the new content of the main section with different styles.

Change Content



## Q5.

```
1 <!-- By 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">Your Heading</h1>
12
13   <script>
14     var headingElement = document.getElementById("myHeading");
15     headingElement.style.color = "red";
16   </script>
17 </body>
18 </html>
```

```
1 <!-- By 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">Your Heading</h1>
12
13   <script>
14     var headingElement = document.querySelector(".myClass");
15     headingElement.style.color = "green";
16   </script>
17 </body>
18 </html>
```

## Your Heading

### Q6.

```
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  </head>
9  <body>
10     <table>
11         <tr>
12             <th>Browser</th>
13             <th>Version</th>
14         </tr>
15         <tr>
16             <td>Chrome</td>
17             <td>57.0</td>
18         </tr>
19         <tr>
20             <td>Firefox</td>
21             <td>52.0</td>
22         </tr>
23         <tr>
24             <td>Edge</td>
25             <td>10</td>
26         </tr>
27         <tr>
28             <td>Opera</td>
29             <td>44</td>
30         </tr>
31     </table>
</body>
```



57.0



16.0



52.0



10



44