

## WEB TECHNOLOGY

### LAB 4

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T1.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Color Changer</title>
  <style>
    body {
      text-align: center;
      padding: 50px;
      font-family: Arial, sans-serif;
    }

    #content {
      margin-bottom: 20px;
    }

    #changeButton {
      padding: 10px 20px;
      font-size: 16px;
      cursor: pointer;
    }
  </style>
</head>
<body>

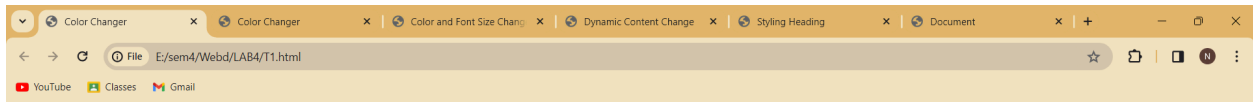
  <div id="content">
    <h1 id="heading">Click the button to change the color</h1>
    <button id="changeButton" onclick="changeColor()">Change Color</button>
  </div>

  <script>
    function changeColor() {
      var body = document.body;
      var heading = document.getElementById('heading');
      var button = document.getElementById('changeButton');

      body.style.backgroundColor = "cyan";
```

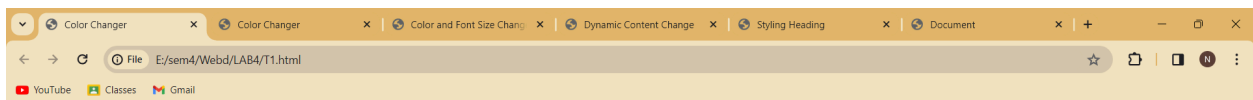
```
        heading.style.color = '#FFF';  
        button.style.backgroundColor = "cyan";  
        heading.innerHTML = 'Color changed';  
    }  
</script>  
</body>  
</html>
```

OUTPUT:



**Click the button to change the color**

Change Color



**Color changed**

Change Color

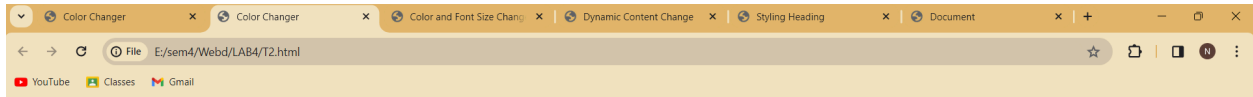
T2.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Color Changer</title>
  <style>
    body {
      text-align: center;
      padding: 50px;
      font-family: Arial, sans-serif;
    }
    #content {
      margin-bottom: 20px;
    }

    #changeButton {
      padding: 10px 20px;
      font-size: 16px;
      cursor: pointer;
    }
  </style>
</head>
<body>
  <div id="content">
    <h1 id="heading">Click the button to change the color</h1>
    <button id="changeButton" onclick="changeColor()">Click Me</button>
  </div>
  <script>
    function changeColor() {
      var body = document.body;
      var heading = document.getElementById('heading');
      var button = document.getElementById('changeButton');

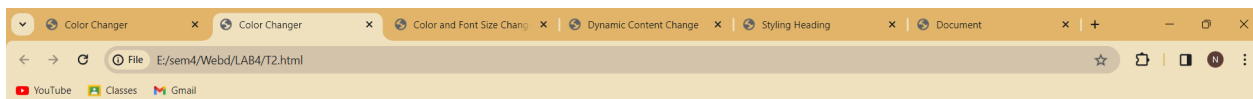
      body.style.backgroundColor = "lightgreen";
      heading.style.color = "red";
      button.style.backgroundColor = "lightgreen";
      heading.style.fontSize= '48pt';
      heading.innerHTML = 'Color changed';
    }
  </script>
</body>
</html>
```

OUTPUT:



**Click the button to change the color**

Click Me



**Color changed**

Click Me

T3.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Color and Font Size Changer</title>
  <style>
    body
    {
      text-align: center;
      padding: 50px;
      font-family: Arial, sans-serif;
    }
    #content
    {
      margin-bottom: 20px;
    }
    .custom-style
    {
      background-color: #3498db;
      color: #ffffff;
      transition: background-color 0.5s, color 0.5s, font-size 0.5s;
    }
    #changeButton
    {
      padding: 10px 20px;
      font-size: 16px;
      cursor: pointer;
    }
  </style>
</head>
<body>

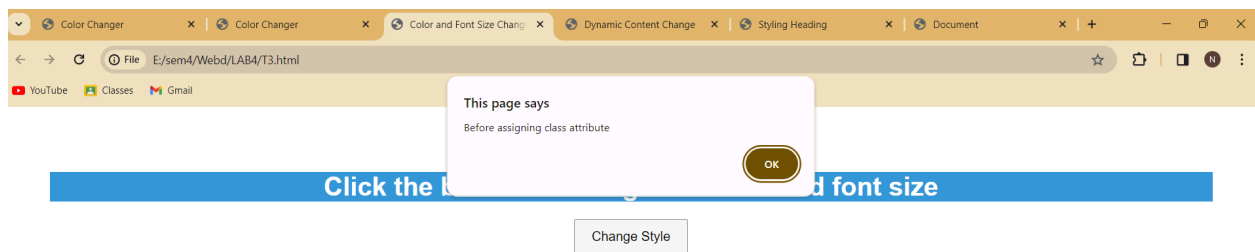
  <div id="content">
    <h1 id="heading" class="custom-style">Click the button to change the
color and font size</h1>
    <button id="changeButton" onclick="changeStyle()">Change Style</button>
  </div>

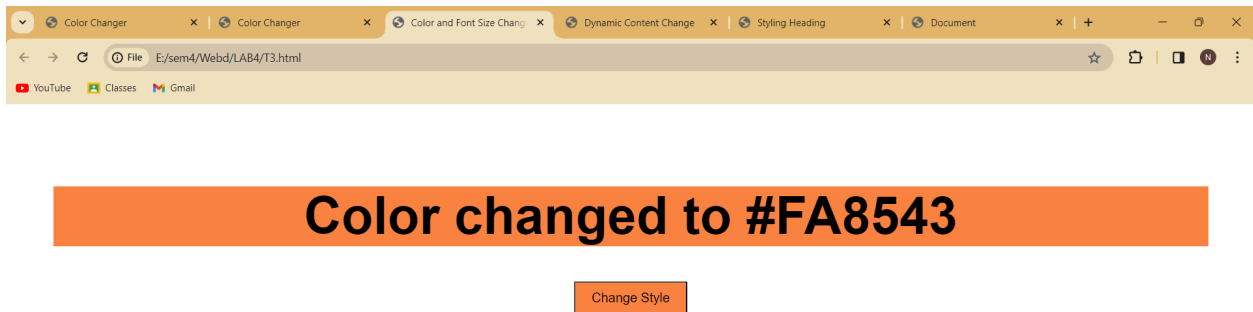
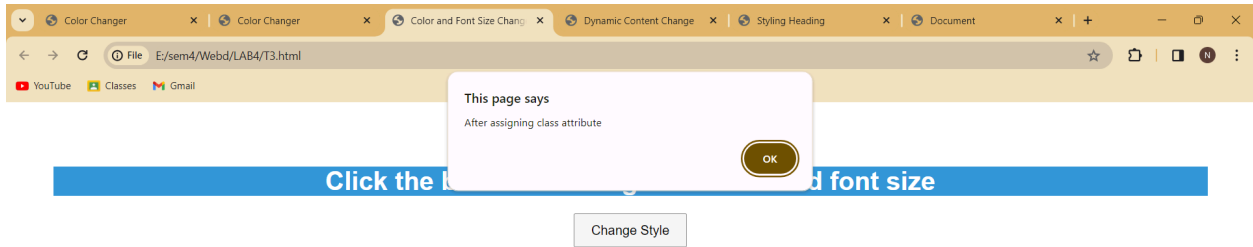
  <script>
    function changeStyle() {
      alert("Before assigning class attribute");

      var heading = document.getElementById('heading');
      var button = document.getElementById('changeButton');
      var randomColor = '#FA8543';
      heading.classList.remove('custom-style');
```

```
        heading.style.backgroundColor = randomColor;
        heading.style.color = randomColor;
        button.style.backgroundColor = randomColor;
        heading.innerHTML = 'Color changed to ' + randomColor;
        heading.style.fontSize = '48pt';
        heading.classList.add('custom-style');
        alert("After assigning class attribute");
    }
</script>
</body>
</html>
```

OUTPUT:





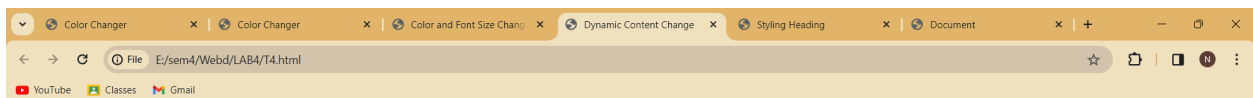
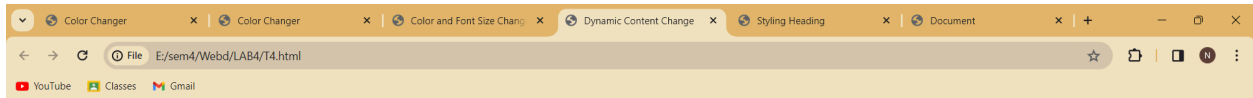


T4.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Dynamic Content Change</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 20px;
    }
    main {
      padding: 20px;
      border: 1px solid #ccc;
      border-radius: 5px;
      margin-bottom: 20px;
    }
    #content1 {
      color: #333;
    }
    #content2 {
      color: #008080;
      font-style: italic;
    }
    button {
      padding: 10px 15px;
      font-size: 16px;
      background-color: #008080;
      color: #fff;
      border: none;
      cursor: pointer;
    }
  </style>
</head>
<body>
  <main id="main-section">
    <div id="content1">
      <h1>Main Content</h1>
      <p>This is the initial content of the main section.</p>
    </div>
  </main>
  <button id="change-content-btn">Change Content</button>
  <script>
    document.getElementById('change-content-btn').addEventListener('click',
function () {
    var mainSection = document.getElementById('main-section');
```

```
        var newContent = '<div id="content2"><h1>Updated Content</h1><p>This  
is the updated content with a different style.</p></div>';  
        mainSection.innerHTML = newContent;  
    });  
</script>  
</body>  
</html>
```

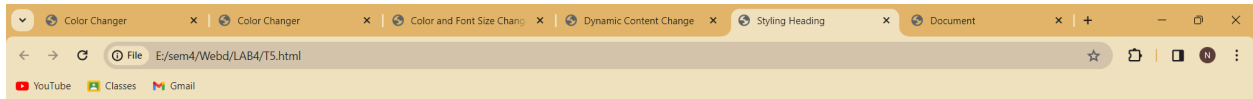
OUTPUT:



T5.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Styling Heading</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 20px;
    }
    #external-heading {
      color: #333;
      text-decoration: underline;
    }
    .color-method-1 {
      color: #FF6347;
    }
    #external-heading-inline {
      color: #00BFFF;
    }
    #external-heading-attribute {
      color: #32CD32;
    }
  </style>
</head>
<body>
  <h1 id="external-heading" class="color-method-1">Heading Outside Main
Section</h1>
  <main id="main-section">
    <div id="content1">
      <h1>Main Content</h1>
      <p>This is the initial content of the main section.</p>
    </div>
  </main>
  <h1 id="external-heading-inline" style="color: #8A2BE2;">Heading with Inline
Style</h1>
  <h1 id="external-heading-attribute">Heading with Inline Style Attribute</h1>
</body>
</html>
```

OUTPUT:



## Heading Outside Main Section

### Main Content

This is the initial content of the main section.

### Heading with Inline Style

### Heading with Inline Style Attribute

T6.

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
    <style>
      .grid-container
      {
        display: grid;
        grid-template-columns: repeat(5,150px) ;
        gap: 0px 0px;
      }
      .child
      {
        text-align: center;
        border: 0.5px solid lightgrey;
        width: auto;
        height: auto;
        font-size: 10px;
        font-family: Verdana, Geneva, Tahoma, sans-serif;
        font-weight: 700;
      }
      .child>img
      {
        height: 40px;
      }
      .gray
      {
        background-color: #d9d9d9;
      }
    </style>
  </head>
  <body>
    <div class="grid-container">
      <div class="child">
        <div class="gray">
          <img alt="A small square image with a light grey background." data-bbox="125 800 180 850"/>
        </div>
      </div>
    </div>
  </body>
</html>
```

```

    }
  </style>
</head>
<body>
  <div class="grid-container">
    <div class="child"> </div>
    <div class="child"> </div>
    <div class="child"> </div>
    <div class="child">  </div>
    <div class="child"> </div>
    <div class="child gray"><p>120.0</p></div>
    <div class="child gray"><p>120.0</p></div>
    <div class="child gray"><p>122.0</p></div>
    <div class="child gray"><p>106.0</p></div>
    <div class="child gray"><p>17.4</p></div>
  </div>
</body>
</html>

```

OUTPUT:

