

## Web Technology Lab Assignment-4

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T1: Code:

```
<!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;
  }
  h1 {
    font-size: 36px;
    margin-top: 50px;
  }
  #changeButton {
    padding: 10px 20px;
    font-size: 18px;
    background-color: #007bff;
    color: white;
    border: none;
    cursor: pointer;
    margin-top: 20px;
  }
</style>
</head>
<body>

<h1 id="heading">Original Heading</h1>
<button id="changeButton" onclick="changeStyles()">Change Styles</button>

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

  var randomColor = '#' + (Math.random()*0xFFFFFFFF<<0).toString(16);
  document.body.style.backgroundColor = randomColor;
  heading.innerText = "New Heading";
}
```

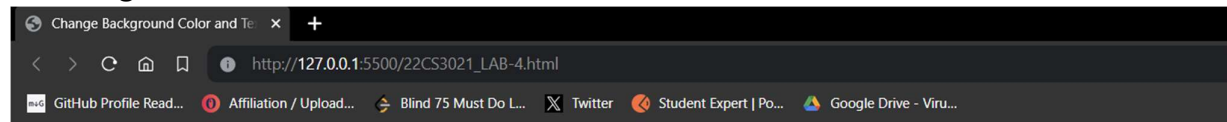
```

        button.innerText = "Styles Changed!";
    }
</script>

</body>
</html>

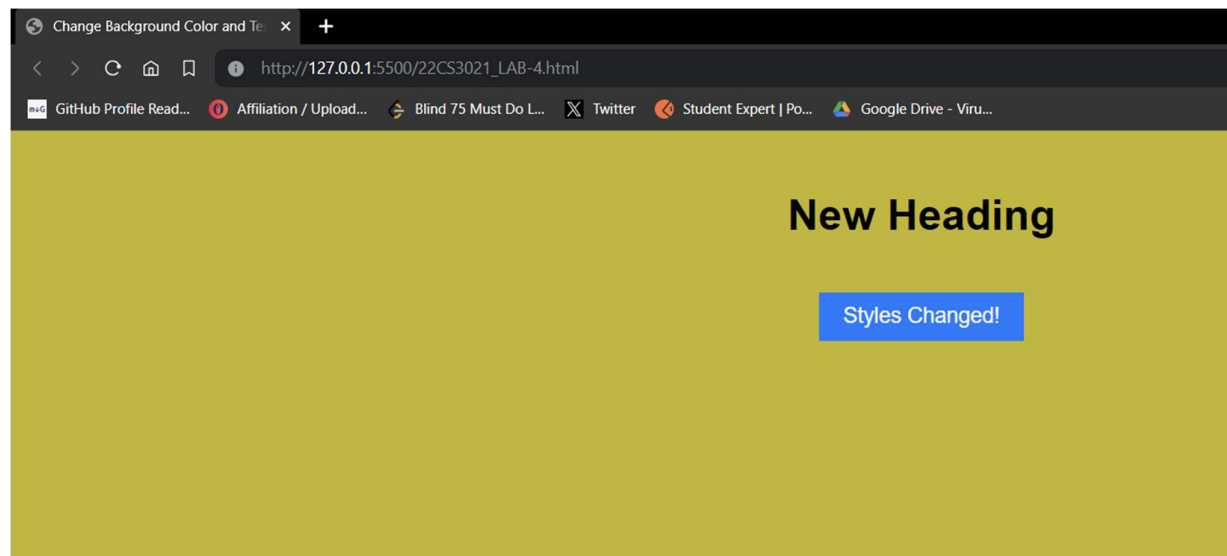
```

Web Page:



# Original Heading

Change Styles



# New Heading

Styles Changed!

T2: Code:

```

<!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;
    }
    h1 {
        font-size: 36px;
        margin-top: 50px;
    }
    #changeButton {
        padding: 10px 20px;
        font-size: 18px;
        background-color: #007bff;
        color: white;
        border: none;
        cursor: pointer;
        margin-top: 20px;
    }
</style>
</head>
<body>

<h1 id="heading">Original Heading</h1>
<button id="changeButton" onclick="changeStyles()">Change Styles</button>

<script>
function changeStyles() {
    var heading = document.getElementById('heading');
    var button = document.getElementById('changeButton');
    document.body.style.backgroundColor = 'lightgreen';
    heading.style.color = 'red';
    heading.style.fontSize = '48pt';
    heading.innerText = "Modified Heading";
    heading.insertAdjacentHTML('afterend', '<button>Click Me</button>');
}
</script>

</body>
</html>

```

Web Page:

# Original Heading

Change Styles

# Modified Heading

Click Me

Change Styles

T3: Code:

```
<!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;
  }
  .light-blue-bg {
    background-color: lightblue;
  }
  h1 {
    font-size: 36px;
    margin-top: 50px;
  }
  #changeButton {
    padding: 10px 20px;
    font-size: 18px;
    background-color: #007bff;
    color: white;
    border: none;
    cursor: pointer;
    margin-top: 20px;
  }
</style>
</head>
<body>

<h1 id="heading">Original Heading</h1>
<button id="changeButton" onclick="changeStyles()">Change Styles</button>
```

```

<script>
function changeStyles() {
    alert("Before changing styles");

    document.body.className = "light-blue-bg";

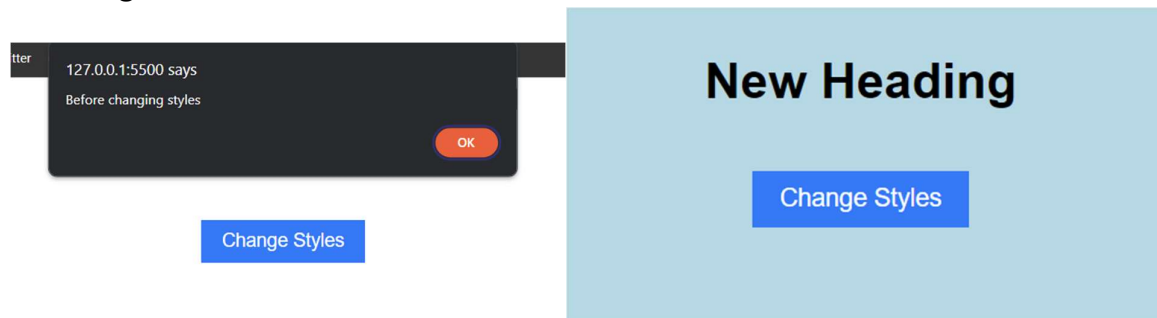
    document.getElementById('heading').innerText = "New Heading";

    alert("After changing styles");
}
</script>

</body>
</html>

```

Web Page:



T4: Code:

```

<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Content Replacement</title>
<style>
    body {
        font-family: Arial, sans-serif;
        text-align: center;
    }
    main {
        padding: 20px;
        margin-top: 20px;
        border: 2px solid #333;
    }
    .content1 {

```

```

        font-size: 24px;
        color: #007bff;
    }
    .content2 {
        font-size: 36px;
        color: #ff5733;
    }
    #replaceButton {
        padding: 10px 20px;
        font-size: 18px;
        background-color: #007bff;
        color: white;
        border: none;
        cursor: pointer;
        margin-top: 20px;
    }
</style>
</head>
<body>

<h1>Page Contents</h1>

<main class="content1">
    <p>This is the initial content within the main section.</p>
</main>

<button id="replaceButton" onclick="replaceContent()">Replace Content</button>

<footer>
    <p>This is content outside the main section.</p>
</footer>

<script>
function replaceContent() {
    var mainSection = document.querySelector('main');
    mainSection.innerHTML = "<p>This is the replaced content with a different
style.</p>";
    mainSection.classList.remove('content1');
    mainSection.classList.add('content2');
}
</script>

</body>
</html>

```

Web Page:

## Page Contents

This is the initial content within the main section.

Replace Content

This is content outside the main section.

## Page Contents

This is the replaced content with a different style.

Replace Content

This is content outside the main section.

### T5: Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Change Heading Color</title>
<style>
  body {
    font-family: Arial, sans-serif;
    text-align: center;
  }
  h1 {
    margin-top: 20px;
  }
</style>
</head>
<body>

<h1 id="heading1" style="color: blue;">Heading with Inline Style</h1>
<h1 id="heading2">Heading with JavaScript</h1>
<h1 id="heading3" class="heading-class">Heading with CSS</h1>

<button onclick="changeColor()">Change Color (JavaScript)</button>

<script>
function changeColor() {
  var heading2 = document.getElementById('heading2');
  heading2.style.color = 'green';
}
</script>
```

```
</body>
</html>
```

Web Page:

Heading with Inline Style

Heading with JavaScript

Heading with CSS

Change Color (JavaScript)

Heading with Inline Style

Heading with JavaScript

Heading with CSS

Change Color (JavaScript)

T6: Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Browser Versions</title>
<style>
  body {
    font-family: Arial, sans-serif;
    text-align: center;
  }
  .grid-container {
    display: grid;
    grid-template-rows: auto auto; /* Two rows */
    grid-template-columns: repeat(5, 1fr);
    gap: 10px;
    margin-top: 20px;
  }
  .grid-item {
    padding: 10px;
  }
</style>
</head>
<body>
```



```

        border: 1px solid #ccc;
    }
    .icon {
        width: 50px;
        height: 50px;
        margin-bottom: 5px;
    }
    .grid-item p {
        background-color: #f2f2f2; /* Light gray background for paragraphs */
        margin: 0; /* Remove default margin */
        padding: 5px; /* Add padding */
    }
</style>
</head>
<body>

<h1>Browser Versions</h1>

<div class="grid-container">
    <div class="grid-item">
        
        <p>Chrome</p>
        <p>Version 98</p>
    </div>
    <div class="grid-item">
        
        <p>Firefox</p>
        <p>Version 96</p>
    </div>
    <div class="grid-item">
        
        <p>Safari</p>
        <p>Version 15</p>
    </div>
    <div class="grid-item">
        
        <p>Edge</p>
        <p>Version 98</p>
    </div>
    <div class="grid-item">

```

```

    
    <p>Opera</p>
    <p>Version 84</p>
  </div>
</div>

</body>
</html>

```

Web Page:



Chrome  
Version 98



Firefox  
Version 96



Safari  
Version 15



Edge  
Version 98



Opera  
Version 84