Task 1 ▬

```html
<!DOCTYPE html>
<html>
<head>
    <title>Change Background Color and Text</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            text-align: center;
            background-color: #f0f0f0;
            color: #333;
            transition: background-color 0.3s, color 0.3s;
        }
        button {
            padding: 10px 20px;
            font-size: 16px;
            cursor: pointer;
            margin-top: 20px;
            border: none;
            background-color: #007bff;
            color: #fff;
            border-radius: 5px;
            transition: background-color 0.3s, color 0.3s;
        }
    </style>
</head>
<body>
    <h1 id="heading">Original Heading</h1>
    <button id="button">Change Color and Text</button>

    <script>
        const heading = document.getElementById('heading');
        const button = document.getElementById('button');

        button.addEventListener('click', () => {
            const colors = ['#ff6347', '#32cd32', '#4169e1', '#ffc0cb', '#ffa500'];
            const newText = 'New Heading';

            const randomColor = colors[Math.floor(Math.random() * colors.length)];
            document.body.style.backgroundColor = randomColor;
            heading.innerText = newText;
        });
    </script>
</body>
```

</html>

Original Heading

Change Color and Text

New Heading

Change Color and Text

T2 ▬

```html
<!DOCTYPE html>
<html>
<head>
    <title>Change Background Color and Text</title>
    <style>
        body {
```

```
            font-family: Arial, sans-serif;
            text-align: center;
            background-color: #f0f0f0;
            color: #333;
            transition: background-color 0.3s, color 0.3s;
        }
        button {
            padding: 10px 20px;
            font-size: 16px;
            cursor: pointer;
            margin-top: 20px;
            border: none;
            background-color: #007bff;
            color: #fff;
            border-radius: 5px;
            transition: background-color 0.3s, color 0.3s;
        }
    </style>
</head>
<body>
    <h1 id="heading">Original Heading</h1>
    <button id="button">Change Color and Text</button>

    <script>
        const heading = document.getElementById('heading');
        const button = document.getElementById('button');

        button.addEventListener('click', () => {
            const colors = ['#ff6347', '#32cd32', '#4169e1', '#ffc0cb', '#ffa500'];
            const newText = 'New Heading';

            const randomColor = colors[Math.floor(Math.random() * colors.length)];
            document.body.style.backgroundColor = 'lightgreen'; // Change background to light
green
            heading.style.color = 'red'; // Make the text red
            heading.style.fontSize = '48pt'; // Change font size to 48pt
            heading.innerText = newText; // Change the text
            heading.insertAdjacentHTML('afterend', '<button>Click Me</button>'); // Add new button
        });
    </script>
</body>
</html>
```

New Heading

[Click Me] [Change Color and Text]

T3 ▬

```
<!DOCTYPE html>
<html>
<head>
    <title>Change Background Color and Text</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            text-align: center;
            background-color: #f0f0f0;
            color: #333;
            transition: background-color 0.3s, color 0.3s;
        }
        .light-green {
            background-color: lightgreen !important;
        }
        .red-text {
            color: red !important;
        }
        .large-text {
            font-size: 48pt !important;
        }
```

```html
    </style>
</head>
<body>
    <h1 id="heading">Original Heading</h1>
    <button id="button">Change Color and Text</button>

    <script>
        const heading = document.getElementById('heading');
        const button = document.getElementById('button');

        button.addEventListener('click', () => {
            const colors = ['#ff6347', '#32cd32', '#4169e1', '#ffc0cb', '#ffa500'];
            const newText = 'New Heading';

            const randomColor = colors[Math.floor(Math.random() * colors.length)];
            alert('Before assigning class attribute');
            document.body.className = 'light-green red-text large-text'; // Set the class attribute
            alert('After assigning class attribute');
            heading.innerText = newText;
            heading.insertAdjacentHTML('afterend', '<button>Click Me</button>');
        });
    </script>
</body>
</html>
```
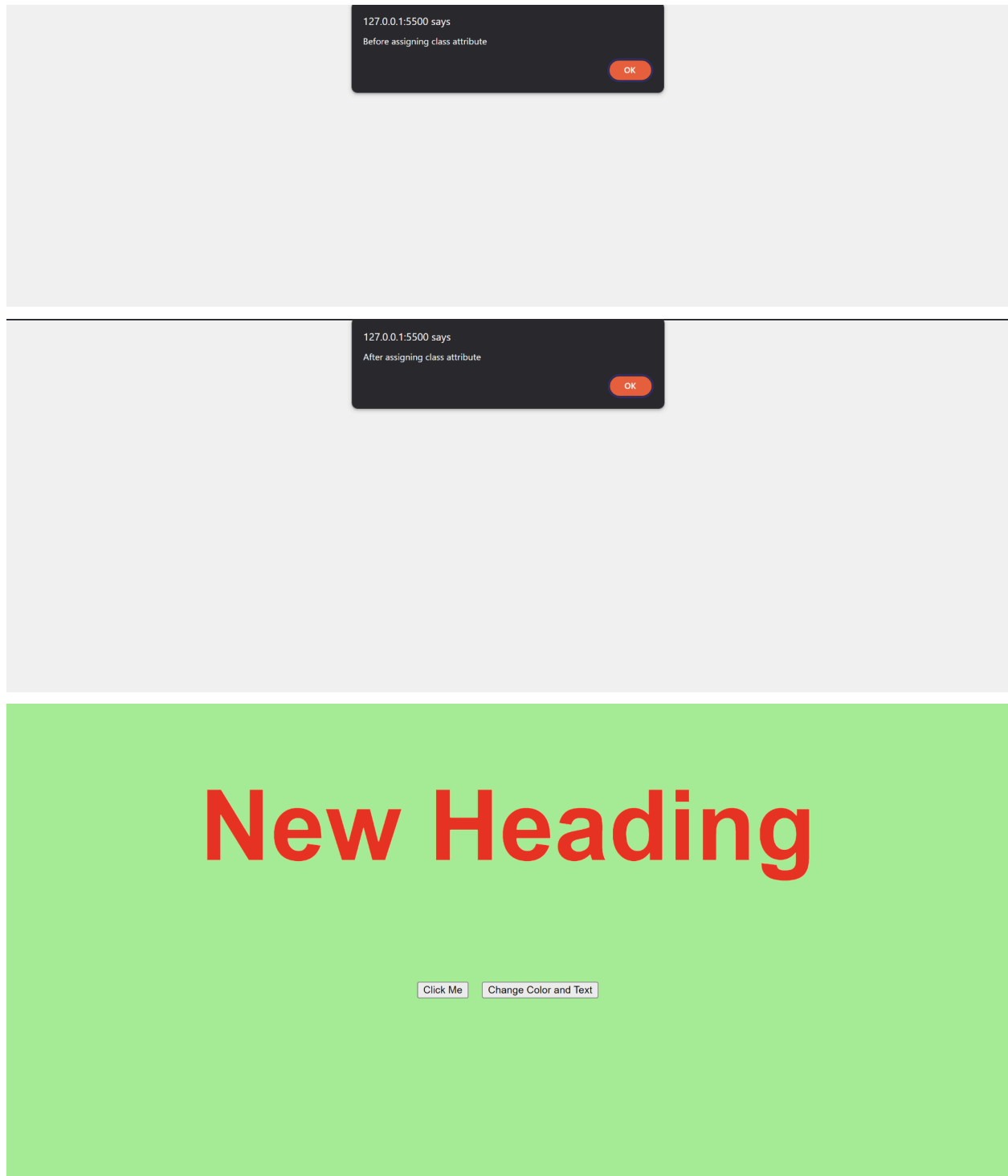
Original Heading

Change Color and Text

New Heading

Click Me   Change Color and Text

T4 :-
```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
```

```html
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Content Replacement</title>
<style>
    body {
        font-family: Arial, sans-serif;
        margin: 0;
        padding: 0;
    }
    header {
        background-color: #333;
        color: #fff;
        padding: 10px 20px;
        text-align: center;
    }
    main {
        padding: 20px;
    }
    .hidden {
        display: none;
    }
    .button-container {
        text-align: center;
        margin-top: 20px;
    }
    button {
        padding: 10px 20px;
        background-color: #333;
        color: #fff;
        border: none;
        cursor: pointer;
    }
</style>
</head>
<body>
    <header>
        <h1>Content Replacement Example</h1>
    </header>
    <main>
        <section id="section1">
            <h2>Section 1</h2>
            <p>This is the initial content of the main section.</p>
        </section>
        <section id="section2" class="hidden">
            <h2>Section 2</h2>
```

```
            <p>This is the replaced content with different style.</p>
        </section>
    </main>
    <div class="button-container">
        <button onclick="replaceContent()">Replace Content</button>
    </div>

    <script>
        function replaceContent() {
            document.getElementById('section1').classList.toggle('hidden');
            document.getElementById('section2').classList.toggle('hidden');
        }
    </script>
</body>
</html>
```

Content Replacement Example

Section 1

This is the initial content of the main section.

Replace Content

Content Replacement Example

Section 2

This is the replaced content with different style.

Replace Content

T5 ▬

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
```

```html
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Changing Heading color</title>
    <style>
        /* Default color */
        .heading {
            color: black;
        }
    </style>
</head>
<body>

    <h1 class="heading" id="headingExample">Welcome to Shangana's Webpage</h1>

    <script>

        document.getElementById('headingExample').style.color = 'pink';

        setTimeout(function() {
            document.getElementById('headingExample').style.color = '#FFA500';
        }, 2000);

        setTimeout(function() {
            document.getElementById('headingExample').style.color = 'rgb(0, 0, 255)';
        }, 4000);
    </script>

</body>
</html>
```

T6 ▬
```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Web Browsers and Versions</title>
<style>
    body {
        font-family: Arial, sans-serif;
        margin: 0;
        padding: 0;
    }
    .container {
    display: grid;
```

```
        grid-template-columns: repeat(auto-fit, minmax(100px, 1fr));
        gap: 10px;
        padding: 20px;
        border-collapse: collapse; /* Collapse borders to avoid double borders */
        margin-top: 200px;
    }

    .browser {
        display: flex;
        flex-direction: column;
        align-items: center;
        border: 1px solid #ddd; /* Add border to each browser box */
        padding: 10px;
    }

    .icon {
        width: 50px;
        height: 50px;
        margin-bottom: 5px;
    }
</style>
</head>
<body>
<div class="container">
    <div class="browser">
        <img src="chrome.png" alt="Chrome" class="icon">
        <span>Latest Version: 57.0</span>
    </div>
    <div class="browser">
        <img src="firefox.png" alt="Firefox" class="icon">
        <span>Latest Version: 52.0</span>
    </div>
    <div class="browser">
        <img src="edge.png" alt="Edge" class="icon">
        <span>Latest Version: 16.0</span>
    </div>
    <div class="browser">
        <img src="safari.png" alt="Safari" class="icon">
        <span>Latest Version: 10.0</span>
    </div>
    <div class="browser">
        <img src="opera.png" alt="Opera" class="icon">
        <span>Latest Version: 44.0</span>
    </div>
```

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

Latest Version: 57.0	Latest Version: 52.0	Latest Version: 16.0	Latest Version: 10.0	Latest Version: 44.0