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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>Change Background & Text</title>
<style>
  body {
    font-family: Arial, sans-serif;
    display: flex;
    justify-content: center;
    align-items: center;
    flex-direction: column;
    height: 100vh;
    margin: 0;
  }
  .button {
    padding: 10px 20px;
    font-size: 16px;
    cursor: pointer;
    margin-top: 20px;
  }
</style>
</head>
<body>

<h1 id="heading">Hello, World!</h1>
```

```
<button class="button"
onclick="changeBackgroundAndText()">Click
Me!</button>

<script>
function changeBackgroundAndText() {

    const colors = ["#f8d7da", "#d4edda",
"#d1ecf1", "#fce8e6"];
    const texts = ["Welcome!", "Hello, World!",
"How are you?", "Goodbye!"];

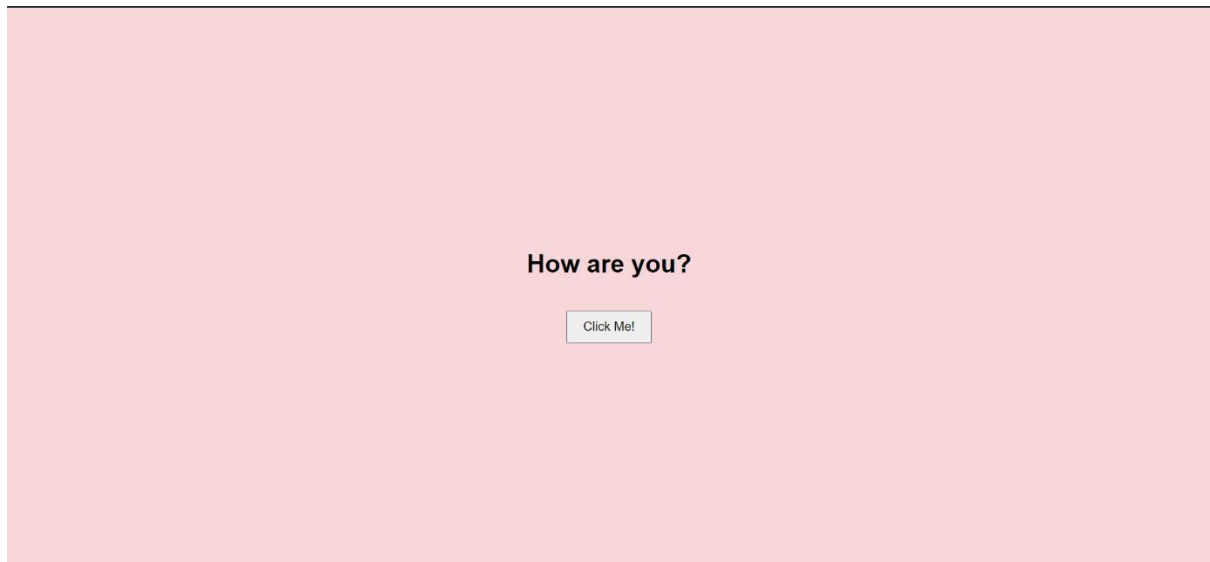
    const currentColor =
document.body.style.backgroundColor;
    const currentText =
document.getElementById("heading").innerText;

    const colorIndex =
colors.indexOf(currentColor);
    const textIndex = texts.indexOf(currentText);

    const nextColorIndex = (colorIndex + 1) %
colors.length;
    const nextTextIndex = (textIndex + 1) %
texts.length;
```

```
    document.body.style.backgroundColor =
colors[nextColorIndex];
    document.getElementById("heading").innerText =
texts[nextTextIndex];
}
</script>

</body>
</html>
```



T2.

```
<!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</title>
<style>
    body {
        font-family: Arial, sans-serif;
```

```
        text-align: center;
        background-color: #f0f0f0;
    }
    h1 {
        color: #333;
        font-size: 24pt;
    }
    .button {
        padding: 10px 20px;
        background-color: #007bff;
        color: #fff;
        border: none;
        cursor: pointer;
        border-radius: 5px;
    }
</style>
</head>
<body>

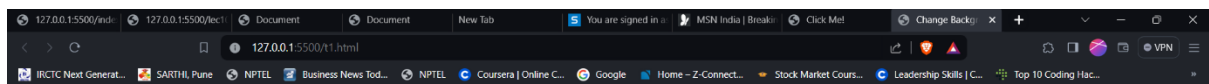
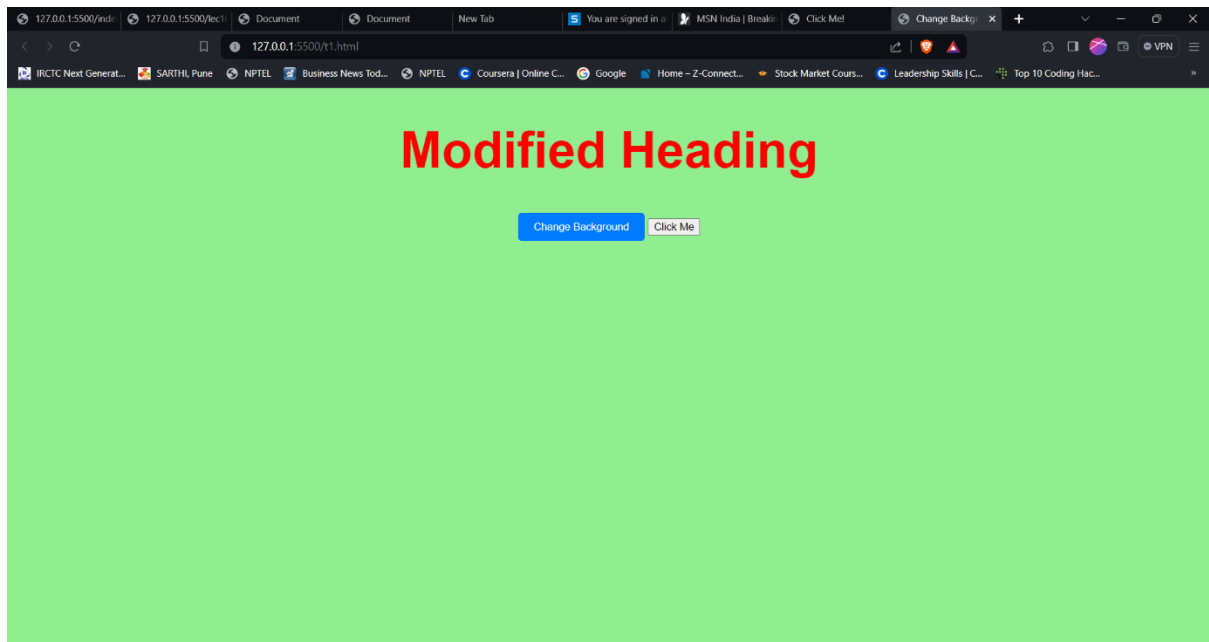
<h1 id="heading">Original Heading</h1>
<button class="button"
onclick="changeBackground()">Change
Background</button>

<script>
function changeBackground() {
    var heading =
document.getElementById("heading");
    var body = document.body;
```

```
    if (body.style.backgroundColor === "white")
    {
        body.style.backgroundColor = "lightgreen"
        heading.textContent = "Modified
Heading";
        heading.style.color = "red";
        heading.style.fontSize = "48pt";
    } else {
        body.style.backgroundColor = "white";
        heading.textContent = "Original
Heading";
        heading.style.color = "#333";
        heading.style.fontSize = "24pt";
    }
}
</script>

<button onclick="alert('Button clicked!')">Click
Me</button>

</body>
</html>
```



T3.

```
<!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</title>
<style>
    body {
        font-family: Arial, sans-serif;
        text-align: center;
        background-color: #f0f0f0;
    }
    .light-green-background {
        background-color: lightgreen; /* Define
a class for light green background */
    }
    h1 {
        color: #333;
        font-size: 24pt;
    }
    .button {
        padding: 10px 20px;
        background-color: #007bff;
        color: #fff;
        border: none;
        cursor: pointer;
        border-radius: 5px;
    }
</style>
</head>
<body>

<h1 id="heading">Original Heading</h1>
```

```
<button class="button"
onclick="changeBackground()">Change
Background</button>

<script>
function changeBackground() {
    alert("Before setting the class
attribute."); // Alert before setting the class
attribute

    var body = document.body;
    body.classList.add("light-green-
background"); // Set the background color
directly with the class attribute

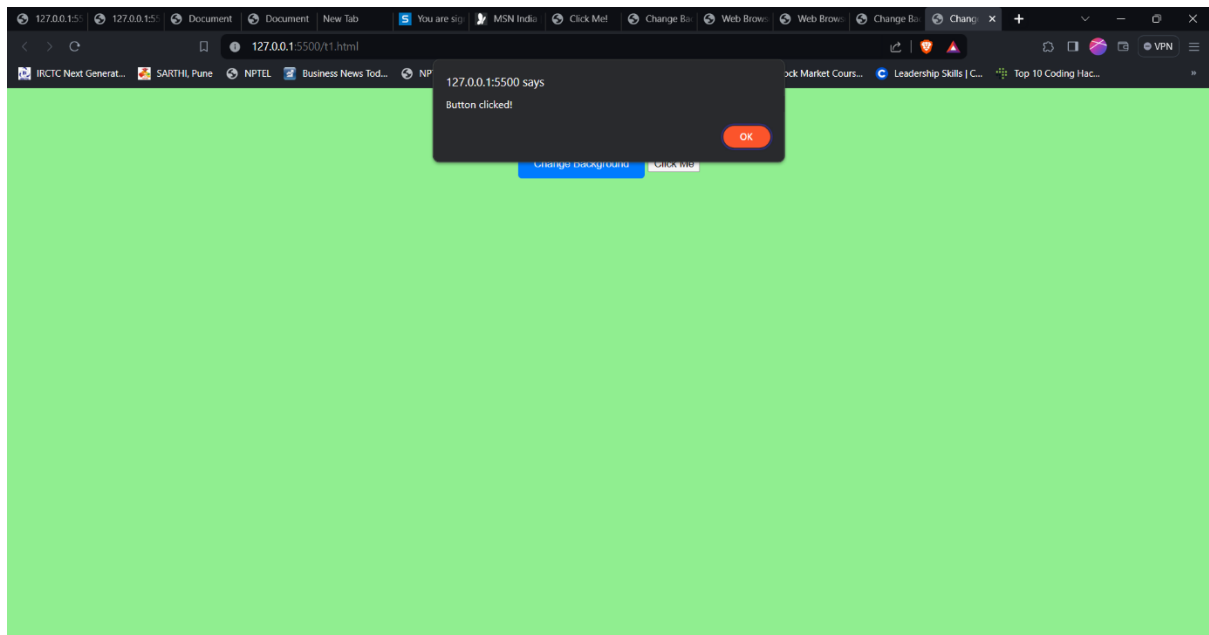
    alert("After setting the class attribute.");
// Alert after setting the class attribute

    var heading =
document.getElementById("heading");
    heading.textContent = "Modified Heading";
}
</script>

<button onclick="alert('Button clicked!')">Click
Me</button>

</body>
</html>
```





T4.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-
width, initial-scale=1.0">
<title>Page with Main Section Content
Replacement</title>
<style>
  body {
    font-family: Arial, sans-serif;
    text-align: center;
  }
  main {
    padding: 20px;
    background-color: #f0f0f0;
    margin: 20px auto;
    width: 80%;
    border-radius: 10px;
```

```
        box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    }
    .original-content {
        font-size: 18px;
        color: #333;
    }
    .new-content {
        font-size: 24px;
        color: #007bff;
        font-weight: bold;
    }
    .button {
        padding: 10px 20px;
        background-color: #007bff;
        color: #fff;
        border: none;
        cursor: pointer;
        border-radius: 5px;
    }
</style>
</head>
<body>

<h1>Page with Main Section Content
Replacement</h1>

<main id="main-section" class="original-
content">
    <p>This is the original content inside the
main section.</p>
</main>
```

```
<button class="button"
onclick="replaceContent()">Replace
Content</button>

<script>
function replaceContent() {
    var mainSection =
document.getElementById("main-section");
    mainSection.innerHTML = "<p class='new-
content'>This is the new content inside the main
section with a different style and
interface.</p>";
}
</script>

</body>
</html>
```

### Page with Main Section Content Replacement

This is the original content inside the main section.

Replace Content

---

## Page with Main Section Content Replacement

This is the new content inside the main section with a different style.

Replace Content

---

T5.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-
width, initial-scale=1.0">
<title>Changing h1 Color</title>
<style>

    .h1-color {
        color: green;
    }
</style>
</head>
<body>

<h1 style="color: blue;">Heading 1 (Inline
CSS)</h1>
```

```
<h1 class="h1-color">Heading 2 (External  
CSS)</h1>  
  
<h1 id="heading3">Heading 3 (JavaScript)</h1>  
  
<script>  
var heading3 =  
document.getElementById("heading3");  
heading3.style.color = "red";  
</script>  
  
</body>  
</html>
```

---

Heading 1 (Inline CSS)

Heading 2 (External CSS)

Heading 3 (JavaScript)

---

T6.

```
<!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;
        text-align: center;
    }
    .grid-container {
        display: grid;
        grid-template-rows: auto auto; /* Two
rows */
        grid-template-columns: repeat(5, 1fr);
/* Five columns */
        gap: 10px; /* Gap between grid items */
        margin: 20px auto;
        width: 80%;
    }
    .grid-item {
        display: flex;
        flex-direction: column;
        align-items: center;
    }
    .browser-icon {
        width: 100px; /* Adjust width as needed
*/
        height: auto;
    }
</style>
</head>
<body>
```

```
<div class="grid-container">
  <div class="grid-item">
    
    <span>Chrome</span>
  </div>
  <div class="grid-item">
    
    <span>Microsoft Edge</span>
  </div>
  <div class="grid-item">
    
    <span>Firefox</span>
  </div>
  <div class="grid-item">
    
    <span>Safari</span>
  </div>
  <div class="grid-item">
    
    <span>Opera</span>
  </div>
  <div class="grid-item">57.0</div>
  <div class="grid-item">16.0</div>
  <div class="grid-item">52.0</div>
  <div class="grid-item">10</div>
```

```
<div class="grid-item">44</div>
</div>

</body>
</html>
```

