

NAME;MOHD.ADNAN

ROLL NO. 22CS3040

WEB DEVELOPMENT

LAB ASSIGNMENT 4

Task1;

```
//HTML file
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Task1</title>
<script src="Task1.js" defer></script>
<link rel="stylesheet" href="Task1.css">
</head>
<body>
<h1>Hello world My self Mohd Adnan</h1>
<button id="changeColorBtn" class="button">Click Here</button>
</body>
</html>

// CSS file
body {
  font-family: Arial, sans-serif;
  text-align: center;
  background-color: #f0f0f0;
}
h1 {
  color: #333;
}
.button {
  padding: 10px 20px;
  font-size: 16px;
```

```

background-color: #007bff;
color: #fff;
border: none;
cursor: pointer;
border-radius: 5px;
transition: background-color 0.3s ease;
}
.button:hover {
background-color: #0056b3;
margin: right;
}

//javascript file
// Function to change background color and text
function changeColor() {
var body = document.body;
var button = document.getElementById('changeColorBtn');

// Generate random color
var randomColor = '#' + Math.floor(Math.random()*16777215).toString(16);

// Change background color
body.style.backgroundColor = randomColor;

// Change button text
button.textContent = 'Color Changed!';

// Reset button text after 1 second
setTimeout(function() {
button.textContent = 'Change Color';
}, 1000);
}

// Event Listener for button click
document.getElementById('changeColorBtn').addEventListener('click',
changeColor);

```

Hello world My self Mohd Adnan

Change Color

Task 2:

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Background Color Changer</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      text-align: center;
    }

    #container {
      margin-top: 100px;
    }

    h1 {
      color: white;
      background-color: dodgerblue;
      padding: 20px;
      border-radius: 10px;
    }

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

<body>

  <div id="container">
    <h1 id="heading">Welcome to the website</h1>
    <button id="changeButton" onclick="changeBackground()">Change Background Color</button>
    <button onclick="changeText()">Click Me</button>
  </div>

  <script>
    function changeBackground() {
      document.body.style.backgroundColor = "lightgreen";

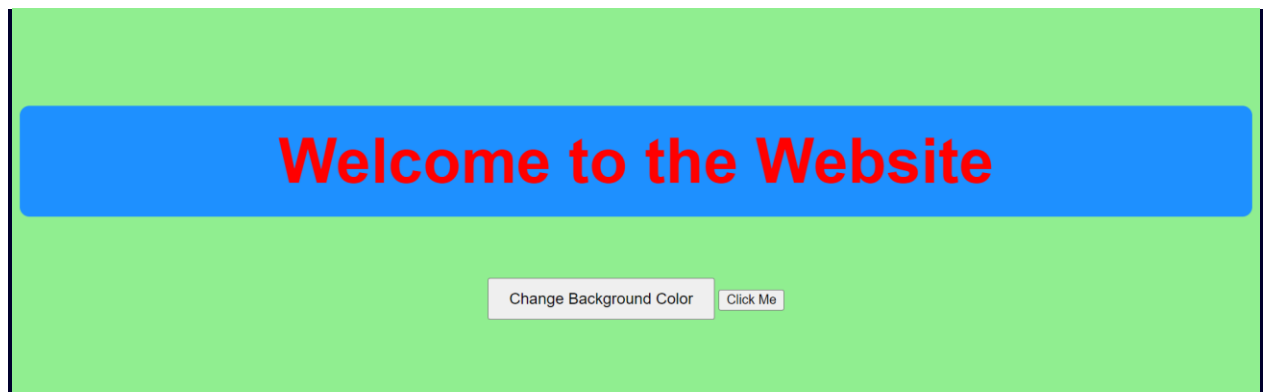
      var heading = document.getElementById("heading");
      heading.style.color = "red";

      heading.style.fontSize = "48pt";
    }

    function changeText() {
      var heading = document.getElementById("heading");
      heading.textContent = " Thanks for your interest";
    }
  </script>

</body>

</html>
```



Task3;

```
<!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; /* Change the fontSize to 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"; // Make
the background light green
        heading.textContent = "Modified Heading"; //
Change the wording inside the <h1> tag
        heading.style.color = "red"; // Add a line that
makes the text red
        heading.style.fontSize = "48pt"; // Change the
fontSize to 48pt
    } else {
        body.style.backgroundColor = "white";
        heading.textContent = "Original Heading";
        heading.style.color = "#333"; // Reset the text
color
    }
}

```

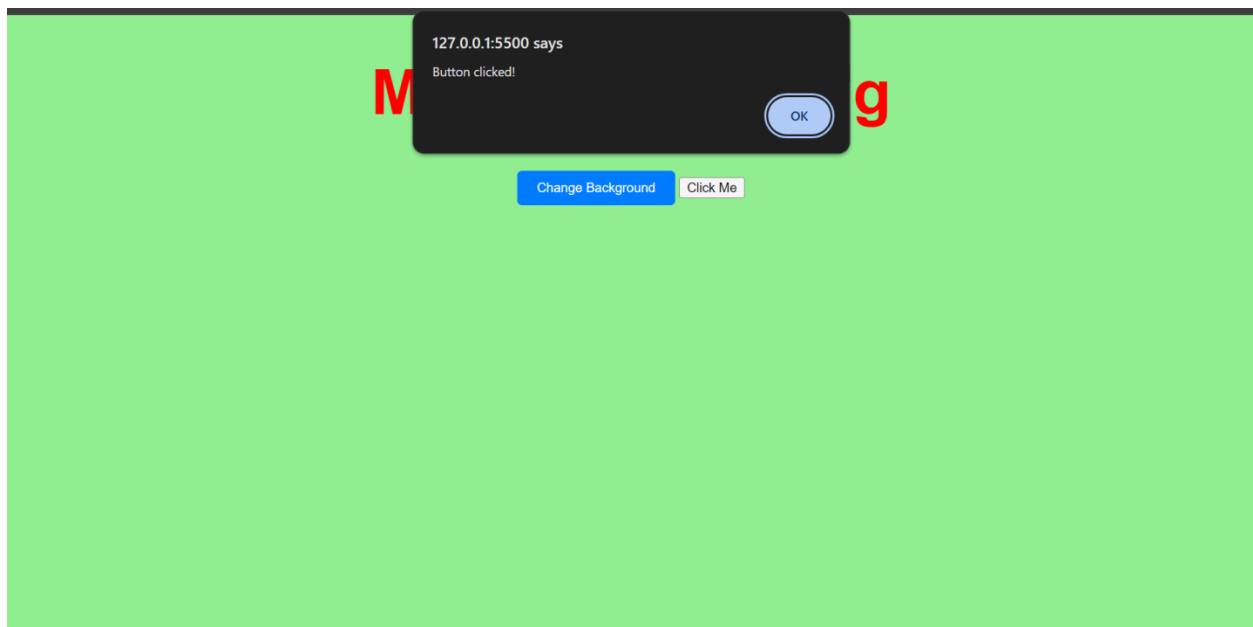
```

        heading.style.fontSize = "24pt"; // Reset the
fontSize
    }
}
</script>

<button onclick="alert('Button clicked!')">Click
Me</button> <!-- Add <button>Click Me</button> after the
closing </h1> -->

</body>
</html>

```



Task 4;

```

<!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.</p>";
}
</script>

</body>
</html>

```

Page with Main Section Content Replacement

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

Replace Content

Task 5;

```
<!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>
    /* Method 2: Using an external CSS stylesheet */
    .h1-color {
        color: green;
    }
</style>
</head>
<body>

<!-- Method 1: Using inline CSS directly in the <h1> tag -
-->
<h1 style="color: blue;">Heading Title1 - Inline CSS</h1>

<!-- Method 2: Using an external CSS stylesheet -->
<h1 class="h1-color">Heading Ttle 2 - External CSS</h1>

<!-- Method 3: Using JavaScript to dynamically change the
style -->
<h1 id="heading3">Heading Title 3 - JavaScript</h1>

<script>
// Method 3: Using JavaScript to dynamically change the
style
```

```
var heading3 = document.getElementById("heading3");
heading3.style.color = "red";
</script>

</body>
</html>
```

Heading Title1 - Inline CSS

Heading Ttle 2 - External CSS

Heading Title 3 - JavaScript

Task6;

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<title>Browser Grid</title>
<style>
  .grid-container {
    display: grid;
    grid-template-columns: repeat(4, 1fr);
    gap: 20px;
    padding: 20px;
```

```

}
.grid-item img {
  width: 100%;
  max-width: 100px;
  height: auto;
  display: block;
  margin: 0 auto;
}
.grid-item {
  text-align: center;
}

</style>
</head>
<body>

<div class="grid-container">

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

  <div class="grid-item">Chrome 100</div>
  <div class="grid-item">Firefox 95</div>
  <div class="grid-item">Edge 95</div>
  <div class="grid-item">Safari 15</div>
</div>

```

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



Chrome
100



Firefox 95



Edge 95



Safari 15