

Lab 08

01.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <title>Change Background Color</title>
```

```
</head>
```

```
<body>
```

```
    <button id="redButton" onmouseover="changeColor('red')"  
onmouseout="resetColor('red')">Red</button>
```

```
    <button id="greenButton" onmouseover="changeColor('green')"  
onmouseout="resetColor('green')">Green</button>
```

```
    <button id="blueButton" onmouseover="changeColor('blue')"  
onmouseout="resetColor('blue')">Blue</button>
```

```
<script>
```

```
    function changeColor(color) {  
        document.getElementById(color + 'Button').style.backgroundColor = color;  
    }
```

```
    function resetColor(color) {  
        document.getElementById(color + 'Button').style.backgroundColor = "";  
    }
```

```
</script>
```

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

02.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>Calculate Circle Area</title>
```

```
</head>
```

```
<body>
```

```
  <script>
```

```
    // Function to calculate the area of a circle
```

```
    function calculateArea() {
```

```
      // Prompt the user to enter the radius
```

```
      var radius = parseFloat(prompt("Enter the radius of the circle:"));
```

```
      if (isNaN(radius)) {
```

```
        alert("Invalid input! Please enter a valid number for the radius.");
```

```
      } else {
```

```
        // Calculate the area using the formula  $A = \pi * r^2$ 
```

```
        var pi = 22 / 7;
```

```
        var area = pi * radius * radius;
```

```
        // Display the result
```

```
        alert("The area of the circle with radius " + radius + " is: " + area.toFixed(2));
```

```
      }
```

```
    }
```

```
    calculateArea();
```

```
</script>
```

</body>

</html>