Lab 08

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01.
<!DOCTYPE html>
<html>
<head>
  <title>Change Background Color</title>
</head>
<body>
  <button id="redButton" onmouseover="changeColor('red')"</pre>
onmouseout="resetColor('red')">Red</button>
  <button id="greenButton" onmouseover="changeColor('green')"</pre>
onmouseout="resetColor('green')">Green</button>
  <button id="blueButton" onmouseover="changeColor('blue')"</pre>
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>