

JavaScript - Tutorial

3. Write a JavaScript code to change the background color when, the mouse pointer is moved over a button and back to normal on mouse out (Use 3 separate buttons for Red, Green and Blue colors)
4. Write a JavaScript program to calculate the area of a circle, Radius should be entered through Prompt box ?

(use πr^2 & $\pi = 22/7$)

3)

```
<!DOCTYPE html>
<html>
<head>
  <title>Change Background Color</title>
  <style>
    .color-button
    {
      padding: 10px 20px;
      margin: 5px;
      cursor: pointer;
    }
  </style>
</head>
<body>
  <h1>Change Background Color</h1>

  <button class="color-button" name="redButton" onmouseover="changeToRed();"
    onmouseout="restoreBackgroundColor();">Red</button>
  <button class="color-button" name="greenButton" onmouseover="changeToGreen();"
    onmouseout="restoreBackgroundColor();">Green</button>
  <button class="color-button" name="blueButton" onmouseover="changeToBlue();"
    onmouseout="restoreBackgroundColor();">Blue</button>

  <script>
    function changeToRed() {
      document.body.style.backgroundColor = "red";
    }

    function changeToGreen() {
      document.body.style.backgroundColor = "green";
    }
  </script>
</body>
</html>
```

```

        function changeToBlue() {
            document.body.style.backgroundColor = "blue";
        }

function restoreBackgroundColor() {
    document.body.style.backgroundColor = "";
}
</script>
</body>
</html>

```

4)

```

<!DOCTYPE html>
<html>

<head>
    <title>Calculate Circle Area</title>
</head>

<body>
    <h3>Calculate Circle Area</h3>

    <button onclick="calculateArea()">Calculate Area</button>

    <script>
        function calculateArea() {
            const radius = prompt("Enter the radius of the circle:");

            if (isNaN(radius)) {
                alert("Invalid input.");
            } else {
                const area = (22 / 7) * Math.pow(radius, 2);

                const roundedArea = area.toFixed(2);

                alert("Area of the circle with radius " + radius + " is: " + roundedArea);
            }
        }
    </script>
</body>
</html>

```