4. Evaluating JavaScript Event Handling for every click of a button to change the background color of a HTML page.

```html
<html>
<head>
<title>Simple Background Color Changer</title>
  <style>
    body {
      text-align: center;
      padding: 50px;
    }
    button {
      padding: 10px 20px;
      font-size: 16px;
    }
  </style>
</head>
<body>
  <button onclick="changeBackgroundColor()">Change Background Color</button>

  <script>
    function changeBackgroundColor() {
      const colors = ["skyblue", "lightgray", "green", "yellow", "pink", "lavander"];
      const randomColor = colors[Math.floor(Math.random() * colors.length)];
      document.body.style.backgroundColor = randomColor;
    }
  </script>
</body>
</html>
```