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Practical No: 8 To develop simple JavaScript applications by using understanding of event handlers

Code:

Index.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Shape Color Change App</title>
    <link rel="stylesheet" href="styles.css">
</head>
<body>
    <header>
        <h1>Javascript event handling</h1>
    </header>
    <div class="shape-container">
        <div class="shape"></div>
        <div class="shape-text"></div>
    </div>
    <main>
        <div class="color-buttons">
            <button class="clickButton">Click</button>
            <button class="mouseOverButton">Mouse Over</button>
        </div>

        <div class="input-container">
            <label for="colorInput">Type a color name:</label>
            <input type="text" id="colorInput">
        </div>
    </main>
    <script src="script.js"></script>
</body>
</html>
```

Styles.css

```css
body {
    font-family: Arial, sans-serif;
    text-align: center;
    background-color: #f7f7f7;
    margin: 0;
    height: 100vh;
    display: flex;
```

```css
    flex-direction: column;
    justify-content: center;
    align-items: center;
}

header {
    background-color: #333;
    color: #fff;
    padding: 20px;
}

.color-buttons {
    display: flex;
    justify-content: center;
    margin-top: 20px;
}

button {
    font-size: 16px;
    padding: 10px 20px;
    margin: 0 10px;
    cursor: pointer;
    background-color: #4caf50;
    border: none;
    border-radius: 5px;
    color: white;
    outline: none;
}

.shape-container {
    display: flex;
    flex-direction: column;
    align-items: center;
    margin-top: 20px;
}

.shape {
    width: 150px;
    height: 150px;
    background-color: #ccc;
}

.shape-text {
    font-size: 1.5em;
    color: #333;
    font-weight: bold;
    display: none;
}

.input-container {
    margin-top: 20px;
}
```

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```css
input {
    padding: 8px;
    font-size: 16px;
    border: 1px solid #ccc;
    border-radius: 5px;
    outline: none;
}
```

Script.js

```javascript
document.addEventListener('DOMContentLoaded', function() {
    const shape = document.querySelector('.shape');
    const shapeText = document.querySelector('.shape-text');
    const clickButton = document.querySelector('.clickButton');
    const mouseOverButton = document.querySelector('.mouseOverButton');
    const colorInput = document.getElementById('colorInput');

    function changeShapeColor(color) {
        shape.style.backgroundColor = color;
    }

    function addTextToShape(text) {
        shapeText.innerText = text;
        shapeText.style.display = 'block';
    }

    function removeTextFromShape() {
        shapeText.style.display = 'none';
    }

    clickButton.addEventListener('click', function() {
        changeShapeColor('#ff0000');
        addTextToShape('Clicked!');
        setTimeout(removeTextFromShape, 2000);
    });

    mouseOverButton.addEventListener('mouseover', function() {
        changeShapeColor('#00ff00');
        addTextToShape('Mouse over');
        setTimeout(removeTextFromShape, 2000);

    });

    colorInput.addEventListener('focus', function() {
        changeShapeColor('#0000ff');
        addTextToShape('Typing....');
        setTimeout(removeTextFromShape, 2000);

    });
});
```