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

Code:

**Index.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**

body {

    font-family: Arial, sans-serif;

    text-align: center;

    background-color: #f7f7f7;

    margin: 0;

    height: 100vh;

    display: flex;

    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;

}

input {

    padding: 8px;

    font-size: 16px;

    border: 1px solid #ccc;

    border-radius: 5px;

    outline: none;

}

**Script.js**

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);

    });

});

Output:





