TITLE: 5. Program on applying event handling on HTML web page using Java script.

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>Event Handling Example</title>

    <link rel="stylesheet" href="styles.css">

</head>

<body>

    <header>

        <h1>Event Handling Example</h1>

    </header>

    <main>

        <div class="button-container">

            <button id="alertButton">Show Alert</button>

            <button id="changeTextButton">Change Text</button>

            <button id="toggleStyleButton">Toggle Style</button>

        </div>

        <div id="textDisplay">This is some sample text.</div>

    </main>

    <footer>

        <p>&copy; 2024 Event Handling Example. All rights reserved.</p>

    </footer>

    <script src="script.js"></script>

</body>

</html>

Styles.css

\* {

    box-sizing: border-box;

}

body {

    font-family: 'Arial', sans-serif;

    margin: 0;

    padding: 0;

    background-color: #f4f4f4;

    display: flex;

    flex-direction: column;

    min-height: 100vh;

}

header {

    background-color: #007BFF;

    color: white;

    padding: 20px;

    text-align: center;

    box-shadow: 0 2px 10px rgba(0, 0, 0, 0.2);

}

main {

    flex: 1;

    padding: 20px;

    text-align: center;

}

.button-container {

    display: flex;

    justify-content: center;

    flex-wrap: wrap;

    margin-bottom: 20px;

}

button {

    margin: 10px;

    padding: 12px 20px;

    font-size: 16px;

    color: white;

    background-color: #28a745;

    border: none;

    border-radius: 5px;

    cursor: pointer;

    transition: background-color 0.3s, transform 0.2s;

}

button:hover {

    background-color: #218838;

    transform: translateY(-2px);

}

#textDisplay {

    margin-top: 20px;

    font-size: 20px;

    transition: color 0.3s, font-weight 0.3s;

}

footer {

    text-align: center;

    padding: 10px;

    background-color: #007BFF;

    color: white;

}

/\* Responsive Styles \*/

@media (max-width: 600px) {

    header h1 {

        font-size: 1.8rem;

    }

    button {

        font-size: 14px;

        padding: 10px 15px;

    }

    #textDisplay {

        font-size: 18px;

    }

}

Script.js

// Get references to the buttons and text display

const alertButton = document.getElementById('alertButton');

const changeTextButton = document.getElementById('changeTextButton');

const toggleStyleButton = document.getElementById('toggleStyleButton');

const textDisplay = document.getElementById('textDisplay');

// Event listener for the alert button

alertButton.addEventListener('click', () => {

    alert('Hello! This is an alert message.');

});

// Event listener for the change text button

changeTextButton.addEventListener('click', () => {

    textDisplay.textContent = 'The text has been changed!';

});

// Event listener for the toggle style button

toggleStyleButton.addEventListener('click', () => {

    if (textDisplay.style.color === 'red') {

        textDisplay.style.color = 'black';

        textDisplay.style.fontWeight = 'normal';

    } else {

        textDisplay.style.color = 'red';

        textDisplay.style.fontWeight = 'bold';

    }

});

Output:

