Experiment 4

<!DOCTYPE html>

<html>

<head>

<title>JavaScript Pop-up Examples</title>

</head>

<body>

<h2>JavaScript Pop-Up Demonstrations</h2>

<!-- 1. Display Date -->

<button onclick="displayDate()">Display Date</button>

<input type="text" id="dateBox" readonly><br><br>

<!-- 2. Factorial -->

<button onclick="calculateFactorial()">Calculate Factorial</button><br><br>

<!-- 3. Multiplication Table -->

<button onclick="showMultiplicationTable()">Show Multiplication Table</button><br><br>

<!-- 4. Sum Using Confirm -->

<button onclick="sumNumbers()">Sum Numbers</button><br><br>

<script>

// 1. Display Date in textbox

function displayDate() {

const currentDate = new Date();

document.getElementById("dateBox").value = currentDate;

}

// 2. Factorial using alert

function calculateFactorial() {

const n = parseInt(prompt("Enter a number to calculate factorial:"));

if (isNaN(n) || n < 0) {

alert("Please enter a valid non-negative number.");

return;

}

let fact = 1;

for (let i = 1; i <= n; i++) {

fact \*= i;

}

alert("Factorial of " + n + " is: " + fact);

}

// 3. Multiplication Table using alert

function showMultiplicationTable() {

const n = parseInt(prompt("Enter a number for multiplication table:"));

if (isNaN(n)) {

alert("Please enter a valid number.");

return;

}

let table = "Multiplication Table of " + n + ":\n";

for (let i = 1; i <= 10; i++) {

table += `${n} x ${i} = ${n \* i}\n`;

}

alert(table);

}

// 4. Sum of n numbers using confirm

function sumNumbers() {

let sum = 0;

do {

const n = parseFloat(prompt("Enter a number to add:"));

if (!isNaN(n)) {

sum += n;

} else {

alert("Invalid number, not added.");

}

} while (confirm("Do you want to add another number?"));

alert("The total sum is: " + sum);

}

</script>

</body>

</html>