

Experiment 4

WEEK- 4: Develop and demonstrate JavaScript with POP-UP boxes and functions for the following problems:

- Input: Click on DisplayDate button using onclick() function Output: Display **date** in the textbox
- Input: A number n obtained using **prompt**

Output: **Factorial** of n number using **alert**

- Input: A number n obtained using **prompt**

Output: A **multiplication table** of numbers from 1 to 10 of n using **alert**

- Input: A number n obtained using **prompt** and add another number using **confirm**

Output: **Sum** of the entire n numbers using **alert**

1. Display Date in Textbox using onclick ()

```
<!DOCTYPE html>
<html>
<head>
  <title>Display Date</title>
  <script>
    function displayDate() {
      document.getElementById("dateBox").value = new Date().toLocaleString();
    }
  </script>
</head>
<body>
  <h2>Display Current Date</h2>
  <input type="text" id="dateBox" readonly>
  <button onclick="displayDate()">Display Date</button>
</body>
</html>
```

2. Factorial of a Number Using prompt () and alert ()

```

<!DOCTYPE html>

<html>

<head>

  <title>Factorial Calculation</title>

  <script>

    function calculateFactorial() {

      let n = parseInt(prompt("Enter a number to find its factorial:"));

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

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

        return;

      }

      let factorial = 1;

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

        factorial *= i;

      }

      alert("Factorial of " + n + " is " + factorial);

    }

  </script>

</head>

<body>

  <h2>Factorial of a Number</h2>

  <button onclick="calculateFactorial()">Find Factorial</button>

</body>

</html>

```

3. Multiplication Table Using `prompt()` and `alert()`

```

<!DOCTYPE html>

<html>

<head>

  <title>Multiplication Table</title>

  <script>

    function multiplicationTable() {

```

```

    let n = parseInt(prompt("Enter a number to display its multiplication table:"));
    if (isNaN(n)) {
        alert("Please enter a valid number.");
        return;
    }
    let result = "Multiplication Table of " + n + ":\n";
    for (let i = 1; i <= 10; i++) {
        result += n + " x " + i + " = " + (n * i) + "\n";
    }
    alert(result);
}
</script>
</head>
<body>
    <h2>Multiplication Table</h2>
    <button onclick="multiplicationTable()">Show Table</button>
</body>
</html>

```

4. Sum of Numbers Using `prompt()` and `confirm()`

```

<!DOCTYPE html>
<html>
<head>
    <title>Sum of Numbers</title>
    <script>
        function sumNumbers() {
            let sum = 0;
            let number;
            do {
                number = parseInt(prompt("Enter a number to add:"));
                if (!isNaN(number)) {
                    sum += number;
                }
            } while (confirm("Add another number?"));
        }
    </script>

```

```

    } else {
        alert("Invalid input! Please enter a valid number.");
    }
} while (confirm("Do you want to add another number?"));
alert("The sum of entered numbers is: " + sum);
}
</script>
</head>
<body>
    <h2>Sum of Numbers</h2>
    <button onclick="sumNumbers()">Calculate Sum</button>
</body>
</html>

```

1. Display Date



