**21F-9288**

**Lab#3**

**6E**

**Task#1**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">

</head>

<body>

<div class="container mt-5">

    <div class="alert alert-danger alert-dismissible fade show" role="alert">

        <p>Feel good about <a href="https://www.w3schools.com/bootstrap/bootstrap\_ver.asp" class="btn btn-primary" target="\_blank">Bootstrap</a></p>

  </div>

        <button type="button" class="close" data-dismiss="alert" aria-label="Close">

            <span aria-hidden="true">×</span>

        </button>

    <div class="alert alert-info alert-dismissible fade show" role="alert">

        <P>Feel informed about Bootstrap <a href="https://www.w3schools.com/bootstrap/bootstrap\_ver.asp" class="btn btn-primary" target="\_blank">Bootstrap</a></P>

        <button type="button" class="close" data-dismiss="alert" aria-label="Close">

            <span aria-hidden="true">×</span>

        </button>

    </div>

    <div class="alert alert-warning alert-dismissible fade show" role="alert">

        <p>Feel warned about Bootstrap. <a href="https://www.w3schools.com/bootstrap/bootstrap\_ver.asp" class="btn btn-primary" target="\_blank">Bootstrap</a></P></p>

        <button type="button" class="close" data-dismiss="alert" aria-label="Close">

            <span aria-hidden="true">×</span>

        </button>

    </div><div class="alert alert-warning alert-dismissible fade show" role="alert">

        <p>Maybe I should read the docs... <a href="https://www.w3schools.com/bootstrap/bootstrap\_ver.asp" class="btn btn-primary" target="\_blank">Bootstrap</a></P></p>

        <button type="button" class="close" data-dismiss="alert" aria-label="Close">

            <span aria-hidden="true">×</span>

        </button>

    </div><div class="alert alert-warning alert-dismissible fade show" role="alert">

        <p>Feel warned about Bootstrap. <a href="https://www.w3schools.com/bootstrap/bootstrap\_ver.asp" class="btn btn-primary" target="\_blank">Bootstrap</a></P></p>

        <button type="button" class="close" data-dismiss="alert" aria-label="Close">

            <span aria-hidden="true">×</span>

        </button>

    </div>

    <div class="alert alert-danger alert-dismissible fade show" role="alert">

       <p>I really should read the docs... <a href="https://www.w3schools.com/bootstrap/bootstrap\_ver.asp" class="btn btn-primary" target="\_blank">Bootstrap</a></P></p>

        <button type="button" class="close" data-dismiss="alert" aria-label="Close">

            <span aria-hidden="true">×</span>

        </button>

    </div>

</div>

</body>

</html>

**Task#2**

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Bootstrap Buttons</title>

  <!-- Bootstrap CSS -->

  <link href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" rel="stylesheet">

</head>

<body>

  <div class="container mt-5">

    <button class="btn btn-basic" onclick="displayMessage('Basic')">Basic</button>

    <button class="btn btn-default" onclick="displayMessage('Default')">Default</button>

    <button class="btn btn-primary" onclick="displayMessage('Primary')">Primary</button>

    <button class="btn btn-success" onclick="displayMessage('Success')">Success</button>

    <button class="btn btn-info" onclick="displayMessage('Info')">Info</button>

    <button class="btn btn-warning" onclick="displayMessage('Warning')">Warning</button>

    <button class="btn btn-danger" onclick="displayMessage('Danger')">Danger</button>

    <button class="btn btn-link" onclick="displayMessage('Link')">Link</button>

  </div>

  <script>

    function displayMessage(message) {

      alert("Button clicked: " + message);

    }

  </script>

</body>

</html>

**Task#3**

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Calculator</title>

</head>

<body>

  <form id="calculatorForm">

    <label for="num1">Enter Number 1:</label>

    <input type="number" id="num1" name="num1" required>

    <br><br>

    <label for="num2">Enter Number 2:</label>

    <input type="number" id="num2" name="num2" required>

    <br><br>

    <button type="button" onclick="calculate()">Calculate</button>

  </form>

  <div id="result"></div>

  <script>

    function calculate() {

      // Get the input values

      let num1 = parseFloat(document.getElementById('num1').value);

      let num2 = parseFloat(document.getElementById('num2').value);

      // Check if both input fields are not empty

      if (!isNaN(num1) && !isNaN(num2)) {

        // Perform calculations

        let sum = num1 + num2;

        let difference = num1 - num2;

        let product = num1 \* num2;

        let quotient = num1 / num2;

        // Display results

        document.getElementById('result').innerHTML = `

          <p>Sum: ${sum}</p>

          <p>Difference: ${difference}</p>

          <p>Product: ${product}</p>

          <p>Quotient: ${quotient}</p>

        `;

      } else {

        // Display error message if input fields are empty or contain non-numeric values

        document.getElementById('result').innerHTML = "<p>Please enter valid numbers in both fields.</p>";

      }

    }

  </script>

</body>

</html>

**Task#4**

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Month Days</title>

</head>

<body>

  <script>

    // Function to get the number of days in a month

    function getDaysInMonth(monthName) {

      // Define a map of month names to their corresponding number of days

      const daysInMonth = {

        "Jan": 31,

        "Feb": 28, // Assuming non-leap year for simplicity

        "Mar": 31,

        "Apr": 30,

        "May": 31,

        "Jun": 30,

        "Jul": 31,

        "Aug": 31,

        "Sep": 30,

        "Oct": 31,

        "Nov": 30,

        "Dec": 31

      };

      // Return the number of days for the given month name, or -1 if not found

      return daysInMonth[monthName] || -1;

    }

    // Prompt the user for the month name

    let monthName = prompt("Enter the name of the month (e.g., Jan, Feb):");

    // Get the number of days in the entered month

    const days = getDaysInMonth(monthName);

    // Display the result

    if (days !== -1) {

      alert(`Number of days in ${monthName}: ${days}`);

    } else {

      alert("Invalid month name entered.");

    }

  </script>

</body>

</html>

**Task#5**

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Multiplication Table</title>

</head>

<body>

  <script>

    // Function to print the multiplication table

    function printMultiplicationTable(number) {

      document.write("<h2>Multiplication Table for " + number + "</h2>");

      document.write("<table border='1'>");

      document.write("<tr><th>Multiplier</th><th>Result</th></tr>");

      for (let i = 1; i <= 10; i++) {

        let result = number \* i;

        document.write("<tr><td>" + number + " \* " + i + "</td><td>" + result + "</td></tr>");

      }

      document.write("</table>");

    }

    // Prompt the user for a number

    let inputNumber = prompt("Enter a number to get its multiplication table:");

    // Convert the input to a number

    let number = parseInt(inputNumber);

    // Check if the input is a valid number

    if (!isNaN(number)) {

      printMultiplicationTable(number);

    } else {

      document.write("<p>Invalid input. Please enter a valid number.</p>");

    }

  </script>

</body>

</html>