

<b>Session</b>	<b>2024-25 (ODD)</b>	<b>Course Name</b>	<b>Web Technology Lab</b>
<b>Semester</b>	<b>3</b>	<b>Course Code</b>	<b>23CT1301</b>
<b>Roll No</b>	<b>56</b>	<b>Name of Student</b>	<b>Mangesh Gavhane</b>

<b>Practical Number</b>	<b>7[A]</b>
<b>Aim</b>	Write a program in JavaScript to perform arithmetic operations.
<b>Theory</b>	<p>JavaScript supports all standard arithmetic operators such as +, -, *, /, and % (modulus).</p> <p>These operators perform basic mathematical calculations on numeric values. This practical demonstrates the use of DOM (Document Object Model) to take input from the user, perform calculations, and display results dynamically without reloading the page.</p>
<b>Procedure and Execution</b>	<p><b>Code:</b></p> <p><b>HTML FILE</b></p> <pre>&lt;!DOCTYPE html&gt; &lt;html lang="en"&gt; &lt;head&gt; &lt;meta charset="UTF-8"&gt; &lt;title&gt;Simple JavaScript Calculator&lt;/title&gt; &lt;style&gt; body {     font-family: Arial, sans-serif;     background: linear-gradient(to right, #b3ffab, #12ffff);     display: flex;     justify-content: center;     align-items: center;     height: 100vh;     margin: 0; }  .calculator {     background: #fff;     padding: 25px;     border-radius: 10px;     box-shadow: 0 0 10px rgba(0,0,0,0.2);</pre>

```
    text-align: center;
    width: 300px;
}
```

```
input[type="number"] {
    width: 80%;
    padding: 10px;
    margin: 8px 0;
    border-radius: 5px;
    border: 1px solid #ccc;
    font-size: 16px;
}

button {
    width: 45%;
    padding: 10px;
    margin: 5px;

    background-color: #007bff;
    border: none;
    color: white;
    font-size: 16px;
    border-radius: 5px;
    cursor: pointer;
}

button:hover {
    background-color: #0056b3;
}

#result {
    margin-top: 15px;
    font-size: 18px;
    color: #222;
    font-weight: bold;
}
</style>
<script src="Practical7.js" defer></script>
</head>
<body>
```

```
<div class="calculator">
    <h2>Calculator</h2>
    <input type="number" id="num1" placeholder="Enter first number"><br>    <input type="number" id="num2" placeholder="Enter second number"><br>
```

```
        <button onclick="calculate('+')">+</button>
        <button onclick="calculate('-')">-</button><br>
        <button onclick="calculate('*')">*</button>
        <button onclick="calculate('/')">/</button><br>
        <button onclick="calculate('%')">%</button>
        <button onclick="clearResult()">C</button>

        <div id="result"></div>
    </div>

</body>
</html>
```

## JS FILE

```
function calculate(operator) {
    let num1 = Number(document.getElementById("num1").value);
    let num2 = Number(document.getElementById("num2").value);
    let result;
    let operation = "";

    if (isNaN(num1) || isNaN(num2)) {
        document.getElementById("result").innerHTML = "Please enter valid numbers.";
        return;
    }

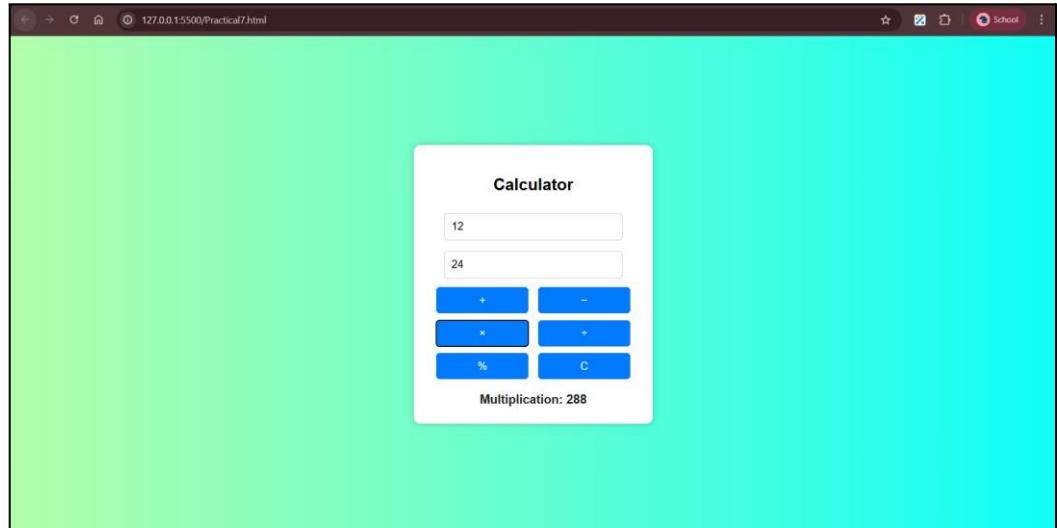
    switch (operator) {
        case '+':
```

```
        result = num1 + num2;
operation = "Addition";

        break;
case '-':
    result = num1 - num2;
operation = "Subtraction";
        break;
case '*':
    result = num1 * num2;
operation = "Multiplication";
        break;
```

```
case '/':
    if (num2 === 0) {
        document.getElementById("result").innerHTML =
"Division by zero is not allowed.";
        return;
    }
    result = (num1 / num2).toFixed(2);
operation = "Division";
        break;
case '%':
    result = num1 % num2;
operation = "Modulus";
        break;
default:
    document.getElementById("result").innerHTML =
"Invalid operation.";
        return;
}

document.getElementById("result").innerHTML =
` ${operation}: ${result}`;
}
```

**Output:**

Link of student Github profile where lab assignment has been uploaded	<a href="https://github.com/mangesh102006/web_technology">https://github.com/mangesh102006 /web_technology</a>
Conclusion	The program was successfully executed to perform arithmetic operations in JavaScript.
Plag Report (Similarity index < 12%)	<b>11%</b>
Date	<b>30th October 2025</b>