



### Department of Computer Technology

#### Vision of the Department

*To be a well-known centre for pursuing computer education through innovative pedagogy, value-based education and industry collaboration.*

#### Mission of the Department

*To establish learning ambience for ushering in computer engineering professionals in core and multidisciplinary area by developing Problem-solving skills through emerging technologies.*

### Session 2025-2026

<b>Vision:</b> Dream of where you want.	<b>Mission:</b> Means to achieve Vision
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**Program Educational Objectives of the program (PEO):** (broad statements that describe the professional and career accomplishments)

PEO1	<b>Preparation</b>	<b>P: Preparation</b>	<b>Pep-CL abbreviation pronounce as Pep-si-IL easy to recall</b>
PEO2	<b>Core Competence</b>	<b>E: Environment (Learning Environment)</b>	
PEO3	<b>Breadth</b>	<b>P: Professionalism</b>	
PEO4	<b>Professionalism</b>	<b>C: Core Competence</b>	
PEO5	<b>Learning Environment</b>	<b>L: Breadth (Learning in diverse areas)</b>	

**Program Outcomes (PO):** (statements that describe what a student should be able to do and know by the end of a program)

**Keywords of POs:**

Engineering knowledge, Problem analysis, Design/development of solutions, Conduct Investigations of Complex Problems, Engineering Tool Usage, The Engineer and The World, Ethics, Individual and Collaborative Team work, Communication, Project Management and Finance, Life-Long Learning

**PSO Keywords:** Cutting edge technologies, Research

“I am an engineer, and I know how to apply engineering knowledge to investigate, analyse and design solutions to complex problems using tools for entire world following all ethics in a collaborative way with proper management skills throughout my life.” to contribute to the development of cutting-edge technologies and Research.

**Integrity:** I will adhere to the Laboratory Code of Conduct and ethics in its entirety.

**Name and Signature of Student and Date**

(Signature and Date in Handwritten)

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<b>Session</b>	<b>2025-26 (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>B-173</b>	<b>Name of Student</b>	<b>Vedant H. Kapgate</b>

<b>Practical Number</b>	<b>7</b>
<b>Course Outcome</b>	<ol style="list-style-type: none"><li>1. Understand various internet technologies.</li><li>2. Design the web pages using HTML and CSS.</li><li>3. Implement the XML technology to store the data.</li><li>4. Develop the interactive web pages using JavaScript.</li></ol>
<b>Aim</b>	<p><b>[A] Write a program in JavaScript to demonstrate the use of While and For Loop.</b></p> <p><b>[B] Write a program in JavaScript to demonstrate the use of Conditional Statements and Functions.</b></p>
<b>Problem Definition</b>	<p><b>[A] Write a program in JavaScript to demonstrate the use of While and For Loop.</b></p> <p><b>[B] Write a program in JavaScript to demonstrate the use of Conditional Statements and Functions.</b></p>
<b>Theory (100 words)</b>	JavaScript is a powerful client-side scripting language used to make web pages interactive and dynamic. In this program, JavaScript is used to perform basic arithmetic operations such as addition, subtraction, multiplication, and division. The HTML part provides the user interface with input fields for entering numbers and buttons to select the desired operation. When a button is clicked, a JavaScript function is called, which retrieves the input values, performs the chosen arithmetic operation using a switch statement, and displays the result using an alert box. This experiment demonstrates how JavaScript can be used for real-time calculations and user interaction within a webpage, enhancing the overall functionality and responsiveness of web applications.
<b>Procedure and Execution (100 Words)</b>	<p>Step for Implementation:</p> <ol style="list-style-type: none"><li>1. Create an HTML file with two input boxes for number inputs.</li><li>2. Add four buttons for arithmetic operations (+, -, ×, ÷).</li><li>3. Write a JavaScript function calculate(operator) to perform the selected operation using a switch statement.</li><li>4. Display the result using an alert() box.</li><li>5. Test the program by entering numbers and clicking operation buttons.</li></ol>



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```
<!DOCTYPE html>
<html>
<head>
  <title>Arithmetic Operations</title>
</head>
<body>
  <h2>Simple Calculator</h2>

  <label>Enter first number:</label>
  <input type="number" id="num1"><br><br>

  <label>Enter second number:</label>
  <input type="number" id="num2"><br><br>

  <button onclick="calculate('+')">Add</button>
  <button onclick="calculate('-')">Subtract</button>
  <button onclick="calculate('*')">Multiply</button>
  <button onclick="calculate('/')">Divide</button>

  <script>
function calculate(operator) {
  const num1 = parseFloat(document.getElementById('num1').value);
  const num2 = parseFloat(document.getElementById('num2').value);
  let result;

  switch (operator) {
    case '+':
      result = num1 + num2;
      break;
    case '-':
      result = num1 - num2;
      break;
    case '*':
      result = num1 * num2;
      break;
    case '/':
      result = num2 !== 0 ? num1 / num2 : 'Cannot divide by zero';
      break;
    default:
      result = 'Invalid operation';
  }
}
```



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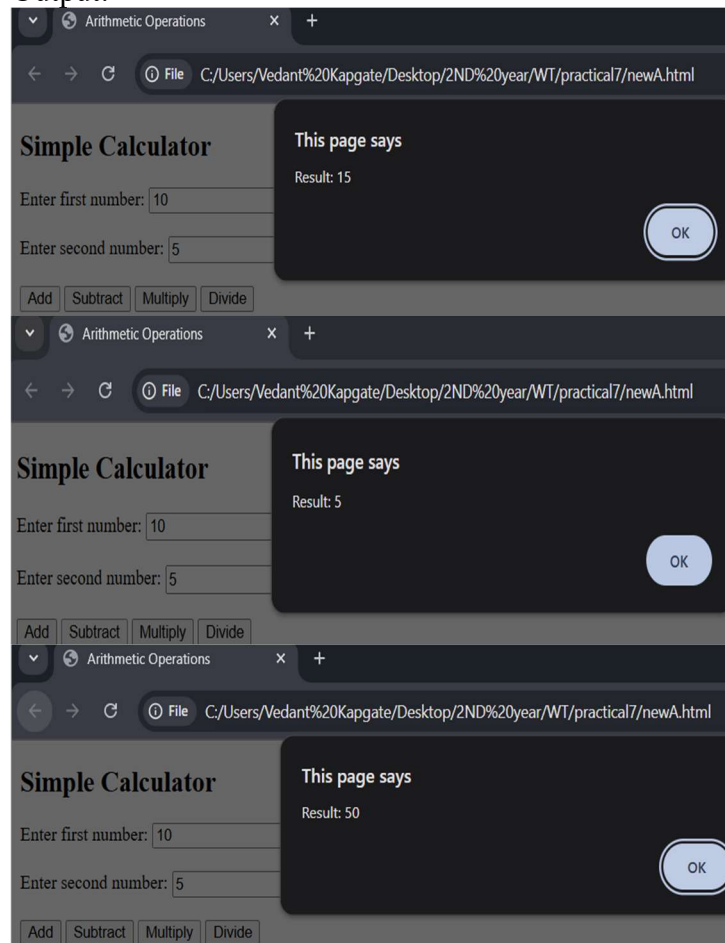
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```
alert("Result: " + result);  
}  
</script>  
  
</body>  
</html>
```

Output:



Addition

Subtraction

Multiply



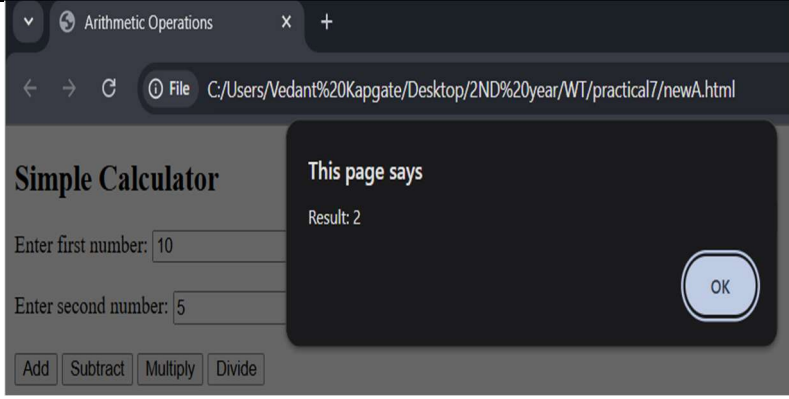
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Output Analysis	<p>When the user enters two numbers and clicks on an operation button, the result of that operation is displayed in an alert box.</p> <p>Example:</p> <p>If num1 = 10 and num2 = 5:</p> <ul style="list-style-type: none"><li>• Add → Result: 15</li><li>• Subtract → Result: 5</li><li>• Multiply → Result: 50</li><li>• Divide → Result: 2</li></ul>
Link of student Github profile where lab assignment has been uploaded	<b><a href="https://github.com/vedant0517/Web-Technology-SEC-B-173">https://github.com/vedant0517/Web-Technology-SEC-B-173</a></b>
Conclusion	The program successfully performs and displays the results in dialog box of basic arithmetic operations using JavaScript, demonstrating the interaction between HTML elements and JavaScript functions.




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<b>Plag Report</b> (Similarity index < 12%)	<div><div>Result</div><div>Word Statistics</div></div> <div>JavaScript is a powerful client-side scripting language used to make web pages interactive and dynamic. In this program, JavaScript is used to perform basic arithmetic operations such as addition, subtraction, multiplication, and division. The HTML part provides the user interface with input fields for entering numbers and buttons to select the desired operation. When a button is clicked, a JavaScript function is called, which retrieves the input values, performs the chosen arithmetic operation using a switch statement, and displays the result using an alert box. This experiment demonstrates how JavaScript can be used for real-time calculations and user interaction within a webpage, enhancing the overall functionality and responsiveness of web applications. When the user enters two numbers and clicks on an operation button, the result of that operation is displayed in an alert box. Example: If num1 = 10 and num2 = 5: • Add → Result: 15 • Subtract → Result: 5 • Multiply → Result: 50 • Divide → Result: 2 The program successfully performs and displays the results in dialog box of basic arithmetic operations using JavaScript, demonstrating the interaction between HTML elements and JavaScript functions.</div>	<div><div>0% Plagiarism</div><div>Exact Match 0% Partial Match 0%</div><div>100% Unique</div></div> <div>Download Report</div> <div><div><b>Congratulation!</b> No Plagiarism Found</div></div>
Date	28/10/2025	