



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

Vision: Dream of where you want.

Mission: Means to achieve Vision

Program Educational Objectives of the program (PEO): (broad statements that describe the professional and career accomplishments)

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

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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Session	2025-26 (ODD)	Course Name	Web Technology Lab
Semester	3	Course Code	23CT1301
Roll No	B-173	Name of Student	Vedant H. Kapgate

Practical Number	8
Course Outcome	<ol style="list-style-type: none">1. Understand various internet technologies.2. Design the web pages using HTML and CSS.3. Implement the XML technology to store the data.4. Develop the interactive web pages using JavaScript.
Aim	<p>[A] Write a program in JavaScript to demonstrate the use of While and For Loop.</p> <p>[B] Write a program in JavaScript to demonstrate the use of Conditional Statements and Functions.</p>
Problem Definition	<p>[A] Write a program in JavaScript to demonstrate the use of While and For Loop.</p> <p>[B] Write a program in JavaScript to demonstrate the use of Conditional Statements and Functions.</p>
Theory (100 words)	<p>Loops in JavaScript are control structures used to execute a block of code repeatedly as long as a specified condition is true. The while loop checks the condition before executing the block, making it an entry-controlled loop. It is useful when the number of iterations is not known beforehand. The for loop, on the other hand, is commonly used when the number of iterations is known, as it combines initialization, condition checking, and increment/decrement in a single line. In this program, the while loop prints numbers from 1 to 5, and the for loop prints numbers from 6 to 10. This demonstrates the functionality and syntax of both loops, showing how repetition can be efficiently handled in JavaScript.</p> <p>Conditional statements in JavaScript allow decision-making based on specific conditions. The most common conditional structure is the if-else statement, which executes different blocks of code depending on whether a condition evaluates to true or false. In this program, a number entered by the user is read using an HTML input field. The JavaScript function checkNumber() uses if-else if-else conditions to determine if the number is positive, negative, or zero. The result is displayed dynamically on the webpage. This experiment demonstrates the application of decision-making control structures in JavaScript and shows how user input can be processed interactively within an HTML page.</p>



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<p>Procedure and Execution</p> <p>(100 Words)</p>	<p>Step for Implementation:</p> <p>p8a.html</p> <ol style="list-style-type: none">1. Create an HTML page and add a heading.2. Use a <p> element to display the output.3. In the <script> tag, declare variables and implement a while loop to print numbers from 1 to 5.4. Implement a for loop to print numbers from 6 to 10.5. Display the combined output using innerHTML. <p>p8b.html</p> <ol style="list-style-type: none">1. Create an HTML file with an input box for user number entry.2. Add a button that triggers the checkNumber() function when clicked.3. Inside the function, read the number using document.getElementById().4. Use if, else if, and else statements to check whether the number is positive, negative, or zero.5. Display the result on the webpage using innerText or textContent.
	<p>Code:</p> <p>p8a.html</p> <pre><!DOCTYPE html> <html> <head> <title>Loop Demo</title> </head> <body> <h2>JavaScript Loop Demo</h2> <p id="output"></p> <script> let result = "Using while loop:
"; let i = 1; while (i <= 5) { result += i + "
"; i++; } result += "Using for loop:
"; for (let j = 6; j <= 10; j++) { result += j + "
"; } document.getElementById("output").innerHTML = result; </script> </body> </html></pre>



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p8b.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Number Checker</title>
</head>
<body>
  <h2>Check if a Number is Positive, Negative, or Zero</h2>
  <input type="number" id="userInput" placeholder="Enter a number">
  <button onclick="checkNumber()">Check</button>
  <p id="result"></p>

  <script>
    function checkNumber() {
      const num = parseFloat(document.getElementById("userInput").value);
      const result = document.getElementById("result");

      if (isNaN(num)) {
        result.textContent = "Please enter a valid number.";
      } else if (num > 0) {
        result.textContent = "The number is positive.";
      } else if (num < 0) {
        result.textContent = "The number is negative.";
      } else {
        result.textContent = "The number is zero.";
      }
    }
  </script>
</body>
</html>
```

Output:



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Output Analysis	<p>p8a.html The webpage displays numbers 1–5 printed using a while loop and numbers 6–10 printed using a for loop.</p> <p>p8b.html When a user enters a number and clicks “Check,” the program displays:</p> <ul style="list-style-type: none">• If number = 7 → <i>The number is positive.</i>• If number = -3 → <i>The number is negative.</i>• If number = 0 → <i>The number is zero.</i>
Link of student Github profile where lab	<p>https://github.com/vedant0517/Web-Technology-SEC-B-173</p>



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assignment has been uploaded	
Conclusion	<p style="text-align: center;">The program successfully demonstrates the use of while and for loops in JavaScript for repetitive execution of code blocks.</p> <p style="text-align: center;">The program correctly identifies whether a number is positive, negative, or zero using conditional statements, demonstrating effective use of decision-making logic in JavaScript.</p>
Plag Report (Similarity index < 12%)	<div><div><div>Result</div><div>Word Statistics</div></div><div><p>Loops in JavaScript are control structures used to execute a block of code repeatedly as long as a specified condition is true. The while loop checks the condition before executing the block, making it an entry-controlled loop. It is useful when the number of iterations is not known beforehand. The for loop, on the other hand, is commonly used when the number of iterations is known, as it combines initialization, condition checking, and increment/decrement in a single line. In this program, the while loop prints numbers from 1 to 5, and the for loop prints numbers from 6 to 10. This demonstrates the functionality and syntax of both loops, showing how repetition can be efficiently handled in JavaScript.</p><p>Conditional statements in JavaScript allow decision-making based on specific conditions. The most common conditional structure is the if-else statement, which executes different blocks of code depending on whether a condition evaluates to true or false. In this program, a number entered by the user is read using an HTML input field. The JavaScript function checkNumber() uses if-else if-else conditions to determine if the number is positive, negative, or zero. The result is displayed dynamically on the webpage. This experiment demonstrates the application of decision-making control structures in JavaScript and shows how user input can be processed interactively within an HTML page.</p><p>The program successfully demonstrates the use of while and for loops in JavaScript for repetitive execution of code blocks.</p><p>The program correctly identifies whether a number is positive, negative, or zero using conditional</p></div></div> <div><div><div>0%</div><div>Plagiarism</div></div><div><div>Exact Match 0%</div><div>Partial Match 0%</div></div><div><div>100%</div><div>Unique</div></div></div> <div><div>Download Report</div></div> <div><div></div><div>Congratulation! No Plagiarism Found</div></div>
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