**Assignment 1**: Basic JavaScript

Task: Write a JavaScript program to find the factorial of a number. Use functions and loops.

| // Function to calculate factorial  function calculateFactorial(number) {  // Base case: factorial of 0 is 1  if (number === 0 || number === 1) {  return 1;  } else {  // Use a loop to calculate the factorial  let factorial = 1;  for (let i = 2; i <= number; i++) {  factorial \*= i;  }  return factorial;  }  }  // Example usage  const inputNumber = 5; // You can change this to any non-negative integer  const result = calculateFactorial(inputNumber);  console.log(`The factorial of ${inputNumber} is: ${result}`); |
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In this program, the calculateFactorial function takes a number as input and uses a loop to calculate its factorial. The loop runs from 2 to the input number, multiplying each iteration's value to the running factorial. The base case is handled for the factorial of 0 and 1, which is always 1. The example usage section shows how to call the function with a specific input and prints the result to the console.