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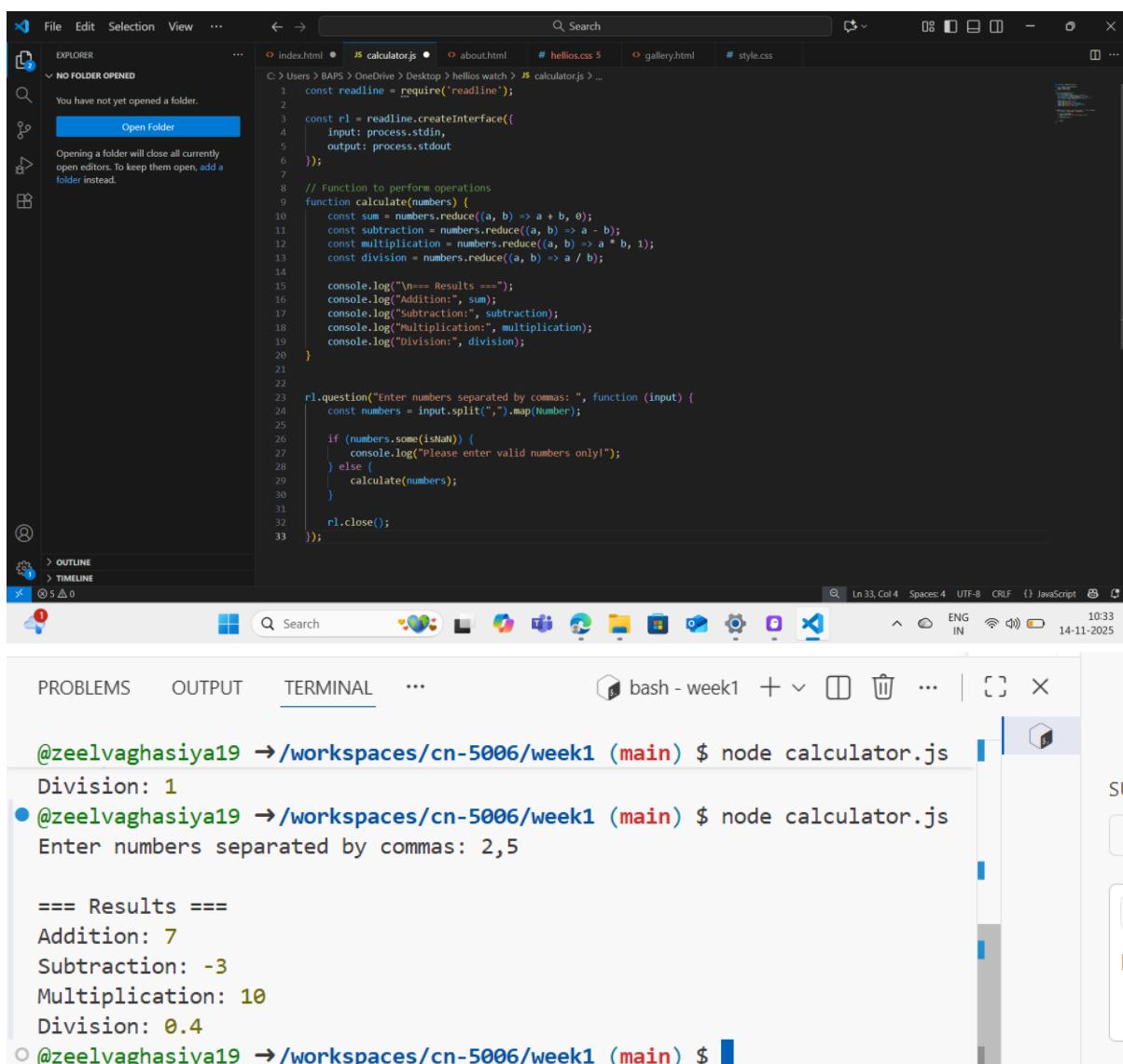
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Course: bsc computer science

Portfolio report for week1:-

Task Description: Create a JavaScript program that performs basic arithmetic operations—addition, subtraction, multiplication, and division—on two or more numbers.

In today's week1 lab activities I got valuable insight of javascript and I learned how to print word using console.log moreover I learned to make basic arithmetic operations like addition, subtraction, multiplication and division. It was my great experience to learn all these things and I get to know how this all works. Challenge I faced was in to create user input number how it will work then I asked to tutor they explained all and I was able to make complete program. In this lab tutorial I had learned about if and else statement .



The screenshot shows the Visual Studio Code interface. The Explorer sidebar indicates no folder is open. The terminal window at the bottom displays the output of a Node.js script named 'calculator.js'. The script performs basic arithmetic operations (addition, subtraction, multiplication, division) on user input numbers separated by commas. The terminal also shows the command used to run the script and the current workspace path.

```
const readline = require('readline');
const rl = readline.createInterface({
  input: process.stdin,
  output: process.stdout
});

function calculate(numbers) {
  const sum = numbers.reduce((a, b) => a + b, 0);
  const subtraction = numbers.reduce((a, b) => a - b);
  const multiplication = numbers.reduce((a, b) => a * b, 1);
  const division = numbers.reduce((a, b) => a / b);

  console.log("\n==== Results ===");
  console.log("Addition:", sum);
  console.log("Subtraction:", subtraction);
  console.log("Multiplication:", multiplication);
  console.log("Division:", division);
}

rl.question("Enter numbers separated by commas: ", function (input) {
  const numbers = input.split(",").map(Number);

  if (numbers.some(isNaN)) {
    console.log("Please enter valid numbers only!");
  } else {
    calculate(numbers);
  }
  rl.close();
});
```

```
@zeelvaghasiya19 → /workspaces/cn-5006/week1 (main) $ node calculator.js
Division: 1
@zeelvaghasiya19 → /workspaces/cn-5006/week1 (main) $ node calculator.js
Enter numbers separated by commas: 2,5

==== Results ===
Addition: 7
Subtraction: -3
Multiplication: 10
Division: 0.4
@zeelvaghasiya19 → /workspaces/cn-5006/week1 (main) $
```