Progaram-1

class Calculator {

  constructor(a, b, operation) {

    this.a = a;

    this.b = b;

    this.operation = operation;

  }

  calculate() {

    switch (this.operation.toLowerCase()) {

      case "add":

      case "addition":

        return this.a + this.b;

      case "subtract":

      case "subtraction":

        return this.a - this.b;

      case "multiply":

      case "multiplication":

        return this.a \* this.b;

      case "divide":

      case "division":

        if (this.b !== 0) {

          return this.a / this.b;

        } else {

          throw new Error("Division by zero is not allowed!");

        }

      default:

        throw new Error("Invalid operation: " + this.operation);

    }

  }

}

// Example usage

const a = 10;

const b = 5;

const operation = "subtract"; // try add, subtract, divide, multiply

const calc = new Calculator(a, b, operation);

try {

  console.log("Result:", calc.calculate());

} catch (error) {

  console.log("Error:", error.message);

}