

Simple Java Calculator Project

Project Overview

This is a basic console-based calculator program developed in Java. It performs addition, subtraction, multiplication, and division based on user input.

Features

- Takes two numbers as input
- User selects operation (+, -, *, /)
- Displays the result or an error if division by zero is attempted

How to run

1. Compile the code: `javac SimpleCalculator.java`
2. Run the program: `java SimpleCalculator`
3. Follow on-screen prompts to input numbers and operator.

Java Code

```
import java.util.Scanner;

public class SimpleCalculator {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.println("Simple Calculator");
        System.out.println("-----");

        System.out.print("Enter first number: ");
        double num1 = scanner.nextDouble();

        System.out.print("Enter second number: ");
        double num2 = scanner.nextDouble();
```

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```
System.out.println("Select operation: +, -, *, /");
```

```
char operator = scanner.next().charAt(0);
```

```
double result;
```

```
switch(operator) {
```

```
    case '+':
```

```
        result = num1 + num2;
```

```
        break;
```

```
    case '-':
```

```
        result = num1 - num2;
```

```
        break;
```

```
    case '*':
```

```
        result = num1 * num2;
```

```
        break;
```

```
    case '/':
```

```
        if(num2 != 0)
```

```
            result = num1 / num2;
```

```
        else {
```

```
            System.out.println("Error! Division by zero.");
```

```
            scanner.close();
```

```
            return;
```

```
        }
```

```
        break;
```

```
    default:
```

```
        System.out.println("Invalid operator!");
```

```
        scanner.close();
```

```
        return;
```

```
}
```

```
System.out.println("Result: " + result);
```

```
scanner.close();
```

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```
}  
  
}
```