

**Software Construction Assignment**

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# Specifications

Simple java calculator the Operators we used + - \* / . For this method we will need to encapsulate our existing code into a class named SimpleCalculator inside a method called runCalculator(), create a SimpleCalculator object in the main method and call this method from the main method. Try it! Scroll down to see the answer when you’re ready. If you don’t know how, just tag along for now and all your questions will be answered:

# Design The design project chosen is a basic simple calculator capable of performing addition, subtraction and multiplication operations with Switch Case. The calculator takes input from a user in and displays output of a selected operator.

**Code**

import java.util.Scanner;

class Main {

public static void main(String[] args) {

char operator;

Double number1, number2, result;

// create an object of Scanner class

Scanner input = new Scanner(System.in);

// ask users to enter operator

System.out.println("Choose an operator: +, -, \*, or /");

operator = input.next().charAt(0);

// ask users to enter numbers

System.out.println("Enter first number");

number1 = input.nextDouble();

System.out.println("Enter second number");

number2 = input.nextDouble();

switch (operator) {

// performs addition between numbers

case '+':

result = number1 + number2;

System.out.println(number1 + " + " + number2 + " = " + result);

break;

// performs subtraction between numbers

case '-':

result = number1 - number2;

System.out.println(number1 + " - " + number2 + " = " + result);

break;

// performs multiplication between numbers

case '\*':

result = number1 \* number2;

System.out.println(number1 + " \* " + number2 + " = " + result);

break;

// performs division between numbers

case '/':

result = number1 / number2;

System.out.println(number1 + " / " + number2 + " = " + result);

break;

default:

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

break;

}

input.close();

}

}

**Screenshots**

