**Task 1:Simple Calculator Application**

**Objective:** To Create a basic calculatorapplicaton in Java.

**Functionality:** The program that it can capable to perform basic operations like addition,subtraction,multiplication,Division.

**Description:**

* In Java, Scanner is a class in java.util package used for obtaining the input of the primitive types like int, double, etc. and strings.
* Using the Scanner class in Java is the easiest way to read input in a Java program, though not very efficient if you want an input method for scenarios where time is a constraint like in competitive programming.
* The **switch statement** is a multi-way branch statement. In simple words, the Java switch statement executes one statement from multiple conditions.
* It is like an [if-else-if](https://www.javatpoint.com/java-if-else) ladder statement. It provides an easy way to dispatch execution to different parts of code based on the value of the expression.
* Basically, the expression can be a byte, short, char, or int primitive data types. It basically tests the equality of variables against multiple values.

**Program Code:**

// Java program for simple calculator

import java.io.\*;

import java.lang.\*;

import java.lang.Math;

import java.util.Scanner;

// Driver class

public class BasicCalculator {

// main function

public static void main(String[] args)

{

// Stores two numbers

double num1, num2;

// Take input from the user

Scanner sc = new Scanner(System.in);

System.out.println("Enter the numbers:");

// Take the inputs

num1 = sc.nextDouble();

num2 = sc.nextDouble();

System.out.println("Enter the operator (+,-,\*,/):");

char op = sc.next().charAt(0);

double o = 0;

switch (op) {

// case to add two numbers

case '+':

o = num1 + num2;

break;

// case to subtract two numbers

case '-':

o = num1 - num2;

break;

// case to multiply two numbers

case '\*':

o = num1 \* num2;

break;

// case to divide two numbers

case '/':

o = num1 / num2;

break;

default:

System.out.println("You enter wrong input");

}

System.out.println("The final result:");

System.out.println();

// print the final result

System.out.println(num1 + " " + op + " " + num2

+ " = " + o);

}

}

**Output:**

Enter the numbers:

3

8

Enter the operator (+,-,\*,/)

\*

The final result:

3.0 \* 8.0 = 24.0