Program Code:

```java
// 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;
```

```java
        // 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);
    }
}
```