```java
 2  * @author JohnLima
 5 package com.limadeveloper.fmu.ads;
 6
 7 public class Calculadora {
 8
 9     private double number1, number2, result;
10     private String operator;
11
12     public void setNumber1(double number1) {
13         this.number1 = number1;
14     }
15
16     public double getNumber1() {
17         return(this.number1);
18     }
19
20     public void setNumber2(double number2) {
21         this.number2 = number2;
22     }
23
24     public double getNumber2() {
25         return(this.number2);
26     }
27
28     public double getResult() {
29         return(this.result);
30     }
31
32     public void setOperator(String operator) {
33         this.operator = operator;
34     }
35
36     public String getOperator() {
37         return(this.operator);
38     }
39
40     public void calculoSoma() {
41         this.result = this.number1+this.number2;
42     }
43
44     public void calculoSubtracao() {
45         this.result = this.number1-this.number2;
46     }
47
48     public void calculoMultiplicacao() {
```

```java
49         this.result = this.number1*this.number2;
50     }
51
52     public void calculoDivisao() {
53         this.result = this.number1/this.number2;
54     }
55
56     public void calcular() {
57         switch (this.getOperator()) {
58         case "+":
59             this.calculoSoma();
60             break;
61         case "-":
62             this.calculoSubtracao();
63             break;
64         case "*":
65             this.calculoMultiplicacao();
66             break;
67         case "/":
68             this.calculoDivisao();
69             break;
70         default:
71             break;
72         }
73     }
74 }
75
```

```java
1 package com.limadeveloper.fmu.ads;
2
3 import java.util.Scanner;
4
5 public class UsaCalculadora {
6
7     private static Scanner scanner;
8     private static Calculadora calculadora;
9
10    public static void main(String[] args) {
11        // TODO Auto-generated method stub
12
13        scanner = new Scanner(System.in);
14        calculadora = new Calculadora();
15
16        System.out.printf("Digite o primeiro número: ");
17        calculadora.setNumber1(scanner.nextDouble());
18
19        System.out.printf("Digite o segundo número: ");
20        calculadora.setNumber2(scanner.nextDouble());
21
22        System.out.printf("Digite o operador: ");
23        calculadora.setOperator(scanner.next());
24
25        calculadora.calcular();
26
27        System.out.printf("\nResultado: %f",
   calculadora.getResult());
28    }
29
30 }
31
```