

```
1 import java.util.Scanner;
2
3 public class Main {
4     public static void main (String[] args) {
5         // Down-casting
6         Calculator <Double> operation = new Operate();
7
8         // Down-casting
9         Operate operator = (Operate) operation;
10        Scanner sc = new Scanner(System.in);
11        boolean calculator = true;
12
13        while (calculator) {
14            System.out.println("Unesite prvi broj: ");
15            operation.setFirst(sc.nextDouble());
16
17            System.out.println("Unesite drugi broj: ");
18            operation.setSecond(sc.nextDouble());
19
20            System.out.println("Unesite zeljeni operator: ");
21            operator.calculate(sc.next().charAt(0));
22
23            System.out.println("\nZelite li jos koju operaciju izvest? (da/ne)");
24            String decider = sc.next();
25            if (decider.equalsIgnoreCase("da")) calculator = true;
26            else calculator = false;
27        }
28    }
29 }
```

```
1 public class Operate <T extends Number> extends Calculator <T> {
2     public double add (T first, T second) {
3         // Unboxing
4         return first.doubleValue() + second.doubleValue();
5     }
6
7     public double subtract (T first, T second) {
8         // Unboxing
9         return first.doubleValue() - second.doubleValue();
10    }
11
12    public double multiply (T first, T second) {
13        // Unboxing
14        return first.doubleValue() * second.doubleValue();
15    }
16
17    public double divide (T first, T second) {
18        // Unboxing
19        return first.doubleValue() / second.doubleValue();
20    }
21
22    public void calculate (char operation) {
23        System.out.println("\n" + first + " " + operation + " " + second + ": ");
24
25        switch (operation) {
26            case ('+'):
27                System.out.println(add(first, second));
28                break;
29            case ('-'):
30                System.out.println(subtract(first, second));
31                break;
32            case ('*'):
33                System.out.println(multiply(first, second));
34                break;
35            case ('/'):
36                System.out.println(divide(first, second));
37                break;
38            default:
39                System.out.println("Krivo unesen operator.");
40        }
41    }
42
43 }
```

```
1 public class Calculator <T extends Number> {
2     protected T first;
3     protected T second;
4
5     public T getFirst() {
6         return first;
7     }
8
9     public void setFirst(T first) {
10        this.first = first;
11    }
12
13    public T getSecond() {
14        return second;
15    }
16
17    public void setSecond(T second) {
18        this.second = second;
19    }
20 }
21
```

```
1 "C:\Program Files\BellSoft\LibericaJDK-19-Full\bin\java.exe" "-javaagent:C:\Program Files\
JetBrains\IntelliJ IDEA 2022.2.3\lib\idea_rt.jar=65477:C:\Program Files\JetBrains\IntelliJ
IDEA 2022.2.3\bin" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=
UTF-8 -classpath D:\Faks\SuvremeneTehnikeProgramiranja\Zadace\Zadaca07a\out\production\
Zadaca07a Main
2 Unesite prvi broj:
3 12
4 Unesite drugi broj:
5 2
6 Unesite zeljeni operator:
7 +
8
9 12.0 + 2.0:
10 14.0
11
12 Zelite li jos koju operaciju izvest? (da/ne)
13 da
14 Unesite prvi broj:
15 12
16 Unesite drugi broj:
17 2
18 Unesite zeljeni operator:
19 -
20
21 12.0 - 2.0:
22 10.0
23
24 Zelite li jos koju operaciju izvest? (da/ne)
25 da
26 Unesite prvi broj:
27 12
28 Unesite drugi broj:
29 2
30 Unesite zeljeni operator:
31 *
32
33 12.0 * 2.0:
34 24.0
35
36 Zelite li jos koju operaciju izvest? (da/ne)
37 da
38 Unesite prvi broj:
39 12
40 Unesite drugi broj:
41 2
42 Unesite zeljeni operator:
43 /
44
45 12.0 / 2.0:
46 6.0
47
48 Zelite li jos koju operaciju izvest? (da/ne)
49 ne
50
51 Process finished with exit code 0
52
```