

```

package assignment2;

import java.util.Scanner;

public class Calculator{

    private static Scanner scan;

    int firstValue;

    int secondValue;

    int operator;

    public static void main(String[] args) {

        scan = new Scanner(System.in);

        new Calculator().getValues(scan);

    }

    // Get values and operator from the menu

    public void getValues(Scanner scan) {

        char repeat;

        do {

            System.out.print("Enter the first number:");

            firstValue = scan.nextInt();

            System.out.print("Enter the second number:");

            secondValue = scan.nextInt();

            System.out.println("Enter the number beside the operation to perform: 1.Add 2.Subtract 3.
Multiply 4. Divide");

            operator = scan.nextInt();

            String result = calculate(firstValue, secondValue, operator);

            System.out.println(result);

            if (result.startsWith("Entered wrong option") || result.startsWith("The divider")) {

                break;

            }

            System.out.println("Do you want to try again (y/n)");

            repeat = scan.next().charAt(0);

        } while (repeat == 'y' || repeat == 'Y');

    }

```

// operates based on the chosen switch case corresponding to the menu and return string

```
public String calculate(int firstValue, int secondValue, int operator) {
```

```
    int result = 0;
```

```
    String output = "";
```

```
    switch (operator) {
```

```
        case 1:
```

```
            result = firstValue + secondValue;
```

```
            output = firstValue + " + " + secondValue + " = " + result;
```

```
            break;
```

```
        case 2:
```

```
            result = firstValue - secondValue;
```

```
            output = firstValue + " - " + secondValue + " = " + result;
```

```
            break;
```

```
        case 3:
```

```
            result = firstValue * secondValue;
```

```
            output = firstValue + " * " + secondValue + " = " + result;
```

```
            break;
```

```
        case 4:
```

```
            if (secondValue != 0) {
```

```
                result = firstValue / secondValue;
```

```
                output = firstValue + " / " + secondValue + " = " + result;
```

```
            } else {
```

```
                output = "The divider (secondValue) cannot be zero";
```

```
            }
```

```
            break;
```

```
        default:
```

```
            output = "Entered wrong option: " + operator;
```

```
            break;
```

```
    }
```

```
    return output;
```

```
}
```

```
}
```

eclipse-workspace2 - Assignments/src/assignment2/Calculator.java - Eclipse IDE

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Calculator.java x

```
1 package assignment2;
2 import java.util.Scanner;
3
4 public class Calculator{
5     private static Scanner scan;
6     int firstValue;
7     int secondValue;
8     int operator;
9     public static void main(String[] args) {
10         scan = new Scanner(System.in);
11         new Calculator().getValues(scan);
12     }
13
14     // Get values and operator from the menu
15     public void getValues(Scanner scan) {
16         char repeat;
17
18         do {
19             System.out.print("Enter the first number:");
20             firstValue = scan.nextInt();
21
22             System.out.print("Enter the second number:");
23             secondValue = scan.nextInt();
24
25             System.out.println("Enter the number beside the operation to perform: 1.Add 2.Subtr
26             operator = scan.nextInt();
27
28             String result = calculate(firstValue, secondValue, operator);
29             System.out.println(result);
30
31             if (result.startsWith("Entered wrong option") || result.startsWith("The divider"))
32                 break;
33
34             System.out.println("Do you want to try again (y/n)");
35             repeat = scan.next().charAt(0);
36         } while (repeat == 'y' || repeat == 'Y');
37     }
38
39     // operates based on the chosen switch case corresponding to the menu and return string
40     public String calculate(int firstValue, int secondValue, int operator) {
41         int result = 0;
42         switch (operator) {
43             case 1:
44                 result = firstValue + secondValue;
45             case 2:
46                 result = firstValue - secondValue;
47             case 3:
48                 result = firstValue * secondValue;
49             case 4:
50                 result = firstValue / secondValue;
51             default:
52                 result = "Entered wrong option";
53         }
54     }
55 }
```

Console x

```
<terminated> Calculator [Java Application] C:\Users\vinee\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_22.0.1.v202
Enter the first number:45
Enter the second number:22
Enter the number beside the operation to perform: 1.Add 2.Subtract 3. Multiply 4. Divide
1
45 + 22 = 67
Do you want to try again (y/n)
n
|
```

eclipse-workspace2 - Assignments/src/assignment2/Calculator.java - Eclipse IDE

File Edit Source Refactor Source Navigate Search Project Run Window Help

Calculator.java x

```
1 package assignment2;
2 import java.util.Scanner;
3
4 public class Calculator{
5     private static Scanner scan;
6     int firstValue;
7     int secondValue;
8     int operator;
9     public static void main(String[] args) {
10         scan = new Scanner(System.in);
11         new Calculator().getValues(scan);
12     }
13
14     // Get values and operator from the menu
15     public void getValues(Scanner scan) {
16         char repeat;
17
18         do {
19             System.out.print("Enter the first number:");
20             firstValue = scan.nextInt();
21
22             System.out.print("Enter the second number:");
23             secondValue = scan.nextInt();
24
25             System.out.println("Enter the number beside the operation to perform: 1.Add 2.Subtr
26             operator = scan.nextInt();
27
28             String result = calculate(firstValue, secondValue, operator);
29             System.out.println(result);
30
31             if (result.startsWith("Entered wrong option") || result.startsWith("The divider"))
32                 break;
33
34             System.out.println("Do you want to try again (y/n)");
35             repeat = scan.next().charAt(0);
36         } while (repeat == 'y' || repeat == 'Y');
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39     // operates based on the chosen switch case corresponding to the menu and return string
40     public String calculate(int firstValue, int secondValue, int operator) {
41         int result = 0;
42         switch (operator) {
43             case 1:
44                 result = firstValue + secondValue;
45             case 2:
46                 result = firstValue - secondValue;
47             case 3:
48                 result = firstValue * secondValue;
49             case 4:
50                 result = firstValue / secondValue;
51             default:
52                 result = "Entered wrong option";
53         }
54     }
55 }
```

Console x

```
<terminated> Calculator [Java Application] C:\Users\vinee\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_22.0.1.v202
Enter the first number:65
Enter the second number:34
Enter the number beside the operation to perform: 1.Add 2.Subtract 3. Multiply 4. Divide
2
65 - 34 = 31
Do you want to try again (y/n)
Y
Enter the first number:45
Enter the second number:22
Enter the number beside the operation to perform: 1.Add 2.Subtract 3. Multiply 4. Divide
1
45 + 22 = 67
Do you want to try again (y/n)
n
|
```

eclipse-workspace2 - Assignments/src/assignment2/Calculator.java - Eclipse IDE

File Edit Source Refactor Source Navigate Search Project Run Window Help

```
1 package assignment2;
2 import java.util.Scanner;
3
4 public class Calculator{
5     private static Scanner scan;
6     int firstValue;
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28             String result = calculate(firstValue, secondValue, operator);
29             System.out.println(result);
30
31             if (result.startsWith("Entered wrong option") || result.startsWith("The divider"))
32                 break;
33         }
34
35         System.out.println("Do you want to try again (y/n)");
36         repeat = scan.next().charAt(0);
37     } while (repeat == 'y' || repeat == 'Y');
38 }
39
40 // operates based on the chosen switch case corresponding to the menu and return string
41 public String calculate(int firstValue, int secondValue, int operator) {
42     int result = 0;
43 }
```

Console X

<terminated> Calculator [Java Application] C:\Users\vinee\p2\pool\plugins\org.eclipse.justi.openjdkhotspotjre.full.win32.x86_64.22.0.1.v202

Enter the first number:45
Enter the second number:22
Enter the number beside the operation to perform: 1.Add 2.Subtract 3. Multiply 4. Divide
7
Entered wrong option: 7

eclipse-workspace2 - Assignments/src/assignment2/Calculator.java - Eclipse IDE

File Edit Source Refactor Source Navigate Search Project Run Window Help

```
1 package assignment2;
2 import java.util.Scanner;
3
4 public class Calculator{
5     private static Scanner scan;
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28             String result = calculate(firstValue, secondValue, operator);
29             System.out.println(result);
30
31             if (result.startsWith("Entered wrong option") || result.startsWith("The divider"))
32                 break;
33         }
34
35         System.out.println("Do you want to try again (y/n)");
36         repeat = scan.next().charAt(0);
37     } while (repeat == 'y' || repeat == 'Y');
38 }
39
40 // operates based on the chosen switch case corresponding to the menu and return string
41 public String calculate(int firstValue, int secondValue, int operator) {
42     int result = 0;
43 }
```

Console X

<terminated> Calculator [Java Application] C:\Users\vinee\p2\pool\plugins\org.eclipse.justi.openjdkhotspotjre.full.win32.x86_64.22.0.1.v202

Enter the first number:90
Enter the second number:0
Enter the number beside the operation to perform: 1.Add 2.Subtract 3. Multiply 4. Divide
4
The divider (secondValue) cannot be zero