```
File - /Users/alu/Documents/dev/intellij-projects/edu_java-programming-masterclass/03-32_OperatorsOperandsExpressions_TemaryOerator/src/com/publicept/Main.java
 1 package com.publicept;
 3 public class Main {
 5
         public static void main(String[] args) {
 6
             int result = 1 + 2;
             System.out.println("1 + 2 = " + result); // 1 + 2 = 3
 8
 9
             int previousResult = result;
System.out.println("previous result = " + previousResult); // previous result = 3
10
11
12
13
14
             result = result - 1;
System.out.println("3 - 1 = " + result); // 3 - 1 = 2
15
16
             result = result * 10;
17
             System.out.println("2 * 10 = " + result); // 2 * 10 = 20
18
             result = result / 5;
System.out.println("20 / 5 = " + result); // 20 / 5 = 4
19
20
21
22
23
             result = result % 3;  // remainder
System.out.println("4 % 3 = " + result); // 4 % 3 = 1
                                                               // remainder / modulus / modulo
24
25
             // result = result + 1
26
             result++;
27
             System.out.println("1++ = " + result); // 1++ = 2
29
30
             System.out.println("2-- = " + result); // 2-- = 1
31
32
33
34
             //result = result + 2;
             result += 2:
             System.out.println("1 += 2 = " + result); // 1 += 2 = 3
35
36
             // result = result * 10
37
             result *= 10;
             System.out.println("3 *= 10 = " + result); // 3 *= 10 = 30
39
40
             // result = result / 3
41
             result /= 3;
42
43
             System.out.println("30 /= 3 = " + result); // 30 /= 3 = 10
44
             // result = result - 2
result -= 2;
45
46
             System.out.println("10 -= 2 = " + result); // 10 -= 2 = 8
47
48
             boolean isAlien = false;
49
             if (isAlien == false) {
50
                  System.out.println("It is not an alien!");
                                                                             // It is not an alien!
                  System.out.println("And I am scared of aliens!"); // And I am scared of aliens!
51
52
             }
53
54
55
             int topScore = 80;
             if (topScore >= 100) {
56
                  System.out.println("You got the high score!"); // no output
57
58
             int secondTopScore = 60;
60
             if (topScore > secondTopScore && topScore < 100) {</pre>
                  // output yes: Greater than second top score and top score is less then 100.
System.out.println("Greater than second top score and top score is less then 100.");
61
62
63
64
             }
65
             if ((topScore > 90) || (secondTopScore <= 90)){
   // output yes: Either or both of the condition</pre>
66
67
                                         ner or both of the conditions are true.
68
                  System.out.println("Either or both of the conditions are true.");
69
70
71
72
73
74
75
76
             int newValue = 50;
             if (newValue == 50) {
                  System.out.println("This is true"); // output yes: This is true
             boolean isCar = false:
77
             if (!isCar) {
78
                  System.out.println("This is not supposed to happen"); // output yes: This is not supposed to happen
79
80
81
82
83
              * Ternary Operator
              * = shortcut of if-then-else
84
85
86
             int ageOfClient = 20;
// read: is ageOfClient >= 20 ? then it's true, else it's false.
87
             boolean isEighteenOrOver = (ageOfClient) >= 20 ? true : false;
System.out.println("Is the Client is 18 or over? " + isEighteenOrOver); // Is the Client is 18 or over? true
88
89
90
91
92
93
              * Double Operators Challenge
94
95
             double myFirstDoubleValue = 20.00d;
96
             double mySecondDoubleValue = 80.01d;
```

```
File-/Users/alu/Documents/dev/intellij-projects/edu\_java-programming-masterclass/03-32\_OperatorsOperandsExpressions\_TermaryOerator/src/com/publicept/Main.java-programming-masterclass/03-32\_OperatorsOperandsExpressions\_TermaryOerator/src/com/publicept/Main.java-programming-masterclass/03-32\_OperatorsOperandsExpressions\_TermaryOerator/src/com/publicept/Main.java-programming-masterclass/03-32\_OperatorsOperandsExpressions\_TermaryOerator/src/com/publicept/Main.java-programming-masterclass/03-32\_OperatorsOperandsExpressions\_TermaryOerator/src/com/publicept/Main.java-programming-masterclass/03-32\_OperatorsOperandsExpressions\_TermaryOerator/src/com/publicept/Main.java-programming-masterclass/03-32\_OperatorsOperandsExpressions\_TermaryOerator/src/com/publicept/Main.java-programming-masterclass/03-32\_OperatorsOperandsExpressions\_TermaryOerator/src/com/publicept/Main.java-programming-masterclass/03-32\_OperatorsOperandsExpressions_TermaryOerator/src/com/publicept/Main.java-programming-masterclass/03-32\_OperatorsOperator-publicept/Main.java-programming-masterclass/03-32\_Operator-publicept/Main.java-programming-masterclass/03-32\_Operator-publicept/Main.java-programming-masterclass/03-32\_Operator-publicept/Main.java-programming-masterclass/03-32\_Operator-publicept/Main.java-programming-masterclass/03-32\_Operator-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-publicept/Main.java-public
                                                    double myValuesTotal = (myFirstDoubleValue + mySecondDoubleValue) * 100.00d;
System.out.println("(20.00d + 80.01d) * 100.00d = " + myValuesTotal); // (20.00d + 80.01d) * 100.00d = 10001.0
     98
      99
  100
                                                    double myRemainder = myValuesTotal % 40d;
System.out.println("The modulus is: " + myRemainder); // The modulus is: 1.0
  101
  102
  103
  104
  105
                                                         * Remainder Challenge
  106
  107
 107
108 //
109 //
110 //
111 //
                                                            boolean isNoRemainder;
if (myRemainder == 0) {
   isNoRemainder = true;
                                                             } else {
  112 //
                                                                             isNoRemainder = false;
  113 //
  114
                                                    boolean isNoRemainder = (myRemainder == 0) ? true : false;
System.out.println("Is the modulus Zero: " + isNoRemainder);
if (!isNoRemainder) {
  115
  116
  117
                                                    System.out.println("Got some remainder.");
} else {
                                                                                                                                                                                                                                                                                                    // Got some remainder.
  118
  119
                                                                     System.out.println("The modulus is actually Zero."); // skipped
  120
  121
                                                    }
  122
                                   }
```

123 } 124