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1 // Example 2.3 IfDemo.java
2 //
3 //
4 // Copyright 2003 Bill Campbell and Ethan Bolker
5
6
7 // A class illustrating the if-statement. A typical run:
8 //
9 // %> java IfDemo
10 // Enter an integer: 0
11 // If 0 is negative, say hello:
12 // isNegative is false
13 // The integer 0 is zero
14 // Finally: 0 is still nonnegative
15 // because it's zero
16
17 public class IfDemo
18 {
19     public static void main( String[] args )
20     {
21         Terminal terminal = new Terminal(); // for input and output
22
23         // Prompt for and read a single integer.
24         int var = terminal.readInt( "Enter an integer: " );
25
26         // simple if statement
27         terminal.println( "If " + var + " is negative, say hello:" );
28         if (var < 0) {
29             terminal.println( "hello" );
30         }
31
32         // an if-else statement testing a boolean variable
33         boolean isNegative = ( var < 0 );
34         if (isNegative) {
35             terminal.println( "isNegative is true" );
36         }
37         else {
38             terminal.println( "isNegative is false" );
39         }
40
41         // if-else-if statement
42         terminal.print( "The integer " + var + " is ";
43         if (var > 0) {
44             terminal.println( "positive" );
45         }
46         else if (var < 0) {
47             terminal.println( "negative" );
48         }
49         else { // just one case left!
50             terminal.println( "zero" );
51         }
52
53         // finally, nested if-(if)-else: note the indenting
54         terminal.print( "Finally: " + var + " is still ");
55         if (var >= 0) {
56             terminal.println( "nonnegative" );

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57         if (var == 0 ) {
58             terminal.println( "because it's zero " );
59         }
60     }
61     else {
62         terminal.println( "negative" );
63     }
64 }
65 }

```