```
 1 package homework;
 2
 3 /**
 4  * Author    John Broere, Principia College
 5  * Course    CSCI 171
 6  * Date      12/12/2011
 7  */
 8
 9 import java.util.*;      // console input
10 import javax.swing.*;    // for JOptionPane
11
12 public class HelloWorldLoop {
13
14     public static void main (String[] args) {
15
16         // variables
17         Scanner input = new Scanner(System.in); // declare input object
18         char cRepeat;    // loop control variable
19         int iCount = 1; // pass counter initialized to 1
20
21         do {
22             System.out.printf("Hello, World! %d Pass\n", iCount);
23             System.out.print("Repeat program? (y or n): "); // prompt
24             cRepeat = Character.toUpperCase(input.next().charAt(0)); // upper case
25
26             // valid input validation loop
27             while (cRepeat != 'Y' && cRepeat != 'N') {  // range check
28                 System.out.println("Aren't you listening?");
29                 System.out.print("Please answer either y or n: "); // prompt
30                 cRepeat = Character.toUpperCase(input.next().charAt(0)); // upper case
31             }
32
33             iCount = iCount + 1; // increment the pass counter
34
35         } while (cRepeat == 'Y'); // loop until user enters n to quit
36
37         // final announcement
38         JOptionPane.showMessageDialog(null, "Thanks for playing!");
39
```

```
40          // close the input object
41          input.close();
42
43      } // main
44
45  } // HelloWorldLoop
```