Quiz 5: More logic

Name: _____

CSCI 110 Section 1

Friday, August 26, 2016

1) Determine the result of evaluating each expression on the left: true, false, error, or don't know. [70 points]

false (false && true)	
!(true false) && true	
32 > 23 && 23 <= 32	
5 > 100 4 + 5 == 9	
!(19 % 3 == 2)	
((false true) && !false)	
<pre>String a = "a"; String b = "b"; (a + b).equals("ab") && a.equals("a")</pre>	
<pre>String s = "bob"; "stan".equals(s) "bob" == s</pre>	
int a = 5; int b = 7; b < 7 a == b a >= 5	
!(2 % 1 == 0 && 6 < 7)	
int b = 20; boolean c = false; !(!(b <= 10 !c) && b >= 20)	
!(5 / 2 == 2 5 < 1 / 2)	
<pre>int a = 12; int b = 1; int c = 14; int d = 7; ((a / b >= 1 b / c >= 1) && (c / d >= 1 d / a >= 1))</pre>	
(!true !false) == !(true && false)	

2) Fill out the blanks to complete the following program. If the user likes just dogs or just cats, greet them with, "Hello fellow dog-lover" or "Hello fellow cat-lover" respectively. If the user does not like either, print "I guess you don't like dogs or cats", If the user likes both, print "Hello animal-lover!". Hint: all three are compound expressions [30 points]

```
import java.util.Scanner;
class AnimalAsker {
   public static void main(String[] args) {
       Scanner reader = new Scanner(System.in);
       System.out.print("Do you like dogs? (true/false) ");
       boolean likesDogs = reader.nextBoolean();
       System.out.print("Do you like cats? (true/false) ");
       boolean likesCats = reader.nextBoolean();
           System.out.println("Hello fellow dog lover!");
       }
       if (______) {
           System.out.println("Hello fellow cat lover!");
       }
       if (_______) {
    System.out.println("Hello animal lover!");
       }
   }
}
```

3) Swap two Strings a and b using a third variable. [extra credit, 15 points]

4) Swap two integers a and b without using a third variable. [extra credit, 25 points]