## DISCLAIMER: This is Study-Guide and in no way indicates what will or will not be on the test.

1. What is y after the following switch statement?

ANSWER: ~

2. What is y after the following statements are executed?

```
int x=1;
int y = x + 1;
```

ANSWER: Y= 1

3. What is the output of the following loop?

ANSWER: 1232525252

4. What is the output of the following code?

```
int x = x, y = -1, and z = 1;

if (x > 0)

if (y > 0)

System.out.println("X > 0 and y > 0");

else if (z > 0)

System.out.println("x < 0 and z > 0"):
```

ANSWER:

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Indicate the number of iteration for each loop. Assume n>=1.

		Answer
5	int i=1; while (i<=n) { i++; }	
6	int i=1; while (i<=0) { i++; }	
7	int i=n; while (i>0) { i; }	n times
8	int i=n; while (i>=0) { i; }	
	int i=n; while (i>0) { i++; }	Infinite

9. Write a java statement to generate a random integer value between 50 and 100 (inclusive).

10. Write an if statement that decreases *pay* by 3% if score is *less* that 90.

11. Write a Boolean expression that evaluates true if

12. Convert the following **While** loop to a **for** loop.

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i=i+1; }

13. Write an algorithm that displays the following table. Note that 1 kilogram is 2.2 pounds.

Pounds	Kilogram	o. "Donale Kilaniam"
20	9.09	Print Poores
25	11.36	Print "Pounds Kilogram' Por(int P=20; P<=515; P=P+5)}
-		dauble K = P/2.2;
-		Prinz P+ " "xk;
•		Mint Pt
510	231.82	
515	234.09	3

14. Use while loop to find the smallest integer n such that n<sup>2</sup> is greater than 12,000

15. Given n, calculate and print it's reverse.

Study: y prime number palindromes

practice problems from chapter 5 ppt printing triangles