LEBANESE AMERICAN UNIVERSITY
**Department of Electrical and Computer Engineering**

# Engineering Programming
COE 212

Fall 2014
*Instructor: Joe Tekli*

Quiz 1 – G1

10 minutes

**Student name & ID:**.....

## Problem I: Short **True** of **False** questions (2.5 pts)

1. The following assignment statement is a valid Java statement:
   `int Void = 32;`
   Answer: **True** False

2. A conversion from byte to float is a widening conversion.
   Answer: **True** False

3. Floating point values that appear in a Java program are known as floating point literals and they are of type `float` by default.
   Answer: True **False**

4. Any variable in Java declared as `final` becomes a Java reserved word.
   Answer: True **False**

5. After running the code shown below, the value stored in variable `x` is: `3`
   ```
   int x = 3;
   x = x + x * x / x - x;
   ```
   Answer: **True** False

## Problem II: Multiple choice questions (3 pts)

For each of the following questions, choose the **single** right answer.

1. The `.class` extension on a file means that the file:
   a. contains Java source code
   b. is produced by the Java interpreter
   **c. is produced by the Java compiler**
   d. Both (a) and (c)

2. If you want to output the text "hi there", including the quote marks, which of the following could do that?
   a. `System.out.print(\""hi there\"");`
   b. `System.out.print("\"hi" + "there"\");`
   c. `System.out.print("\"hi" + "there\"");`
   **d. None of the above**

3. Given that $a = bx^2 + 5$; which of the following is a valid Java statement for this equation?
   a. `int a = b * x^2 + 5;`
   **b. `double a = (double) (b * x * x + 5);`**
   c. `double a = b (x * x) + 5.0;`
   d. None of the above

## Problem III: Long **True** of **False** questions (1.5 pts)

1. Which of the following are **false:**

   **a. After running the code shown below, the value stored in the variable `y` is 13**
   **`int y = 7; y = --y + y;`**
   **b. The output of the following statement is: `4.5`**
   **`System.out.print((double) (9/2));`**
   c. The following expressions results in a value of zero: `16 % 4 % 4`
   **d. When executing the following statement:**
   **`System.out.println("50 plus 25 is " + 50 + 25);`**
   **The output on-screen is: `50 plus 25 is 75`**

## Problem IV: Code Analysis (3 pts)

For each of the following code fragments, what is the value of `x` after the statements are executed?

(1)
```
double val1 = 23.5;
double val2 = val1*100;
double x = val2 – (int) val1*100;
```

**Answer: x= 50.0**

(2)
```
int m = 18, n = 4;
double x = (--m)/(++n);
x += m % n;
```

**Answer: x= 5.0**

**Good luck!**