**CS 112 Worksheet 1 Name \_\_Zizhong John Wang\_\_\_**

**Wed. September 23, 2015**

NOTE: a) Fill your name above, and save it as *CS112Worksheet1\_first\_lastname.docx*. b) Highlight your answers. Please be aware that Java code is case-sensitive. c) (optional for worksheets) Print the paper and hand it in. Also, email it to usvwccs@gmail.com

For the following two questions, assume that *a, b, c* are pre-defined *int* type variables, and *x, y, z* are pre-defined *double* type variables.

1. Valid (V) or invalid (I)?

\_\_I\_\_ a) int 12 = a;

\_\_V\_\_ b) x = 1.23;

\_\_I\_\_   c) y = pow(2.0, 3.0);

\_\_V\_\_   d) x = y + z - 1;

\_\_I\_\_    e) a – b = c + 1;

2. Write the corresponding Java statements for the following math expressions.

 a) $x=\frac{2π}{7y}$

 \_\_\_x = (2.\*Math.PI)/(7.\*y);\_\_\_\_\_\_\_\_

 b) $z= \frac{9}{5}x+32$

 \_\_z = (9\*x)/5 + 32; or z = (9./5.)\*x + 32;\_\_\_

3. Write the *segment of code* to read the user’s full name from the keyboard and output a greeting message to the monitor, such as, “Hi, xxx xxx”. Assume the object of Scanner is pre-defined as *input*.

String name;

 name = input.nextLine();

 System.out.println(“Hi, “ + name);