

Mon. 10/3/2016

NOTE: a) Fill your name above, and save its file name as *CS112Worksheet1_first_lastname*. b) **Highlight your answers**. Please be aware that Java code is case-sensitive.

1. Assume that *a*, *b*, *c* are pre-defined *int* type variables, and *x*, *y*, *z* are pre-defined *double* type variables. Identify if each of the following statements is true or false.

- F a) `int 12 = a;`
T b) `x = 1.23;`
F c) `y = pow(2.0, 3.0);`
T d) `x = y + z - 1;`
F e) `a - b = c + 1;`

2. Write the corresponding Java statement for the following math expression: $x = \frac{2\pi}{7y}$, assuming that *x* and *y* are predefined double variable.

`x = 2. * Math.PI / (7. * y);`

3. Given the following keyboard input:

Joe Smith
77
April Thomas
82

What is the output after the following code segment is executed?

```
String myName = input.nextLine();  
int myScore = input.nextInt();  
String dummy = input.nextLine();  
String oneName = input.nextLine();  
int oneScore = input.nextInt();  
System.out.println(oneName+"\n"+myName+"\n"+(oneScore+myScore));
```

April Thomas

Joe Smith

159

4. Write the segment of code to read two integers and output their average. Declare the variable needed.

```
int a = input.nextInt();  
int b = input.nextInt();  
//double avg = (a + b)/2.;  
//System.out.println(avg);  
System.out.println((a+b)/2.);
```

5. Write the segment of code to read two students' full name and score from the keyboard, and output their names and average score.

```
String myName = input.nextLine();  
double myScore = input.nextDouble();  
String dummy = input.nextLine();  
String oneName = input.nextLine();  
double oneScore = input.nextDouble();  
System.out.println(myName+"\n"+oneName+"\n"+(oneScore+myScore)/2.);
```