CS 1050, Mr. Kramer Programming Assignment #1 # of Points: 10

Purpose: Calculate the average of two numbers. Get used to Java and your development environment.

Due and re-doable dates per the Course at a Glance.

If you are submitting a revision, hand in the original graded version(s) also. Staple the revised version **in front of** the original version(s) and so that **the newer revised version is on top**.

Type in, save and run the file containing the program code shown between the lines on the next page. In the comments at the start of the program, replace phrases as appropriate. **Use this comment header for all programs, with a different vocabulary word (and meaning) and a different quote for each assignment.** Be sure to include the blank lines and comments (they begin with “//”), and the indentation pattern as shown. Java is case sensitive so type the code *exactly* as written. Note there are curly braces {…}, square braces […] and parentheses (…) in the code.

After you have created the Java file, compile and run the program. Test it with a few pairs of numbers. When the program works correctly, run and submit it using as input the numbers 6.5 and 8.

Print the source code with line numbers (in jGrasp, Control-L/Command-L on the PC/Mac toggles the line numbers). Hand in the source code for the program (don’t use a screen print) with line numbers displayed (as you’ll do with all assignments) and a screen print showing the output. You can generate a screen print by right-clicking in the output area and select “Print Contents” then “Native Print.” This will print ALL text that has been generated in the output area, so press the Clear button (in jGrasp) at the left before running your program.

Staple the pages together. The top page should be the source code, bottom page the output. **By hand, write using three lines your name, section number and Asgn #1, in the upper right-hand corner of the top page (as you’ll do with all assignments).**

Continued on the next page

Note a few things about the program below before you start typing:

1. On the line below that shows public class YourName\_S\_01 {

type your name in title case and replace the “S” with your section number. Example: like JohnDoe\_2\_01. The “01” is the assignment number.

2. There are spaces after \*, //, } and before {

3. Include the blank lines and comments (they begin with “//”), and the indentation pattern as shown.

Here is the program to type in (NOT copy and paste!) into jGrasp or your Integrated Development Environment.

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/\* Interactive Average Program This program asks the user to input two real numbers, calculates the average of these numbers, and prints the results

Your name

Program #1, CS 1050, Section S (replace “S” with your section number)

Version of your Integrated Development Environment (IDE), computer and operating system

A new vocabulary word (not computer-related) and its meaning

Inspirational quote – not religious or political – along with the source and the person’s year of birth [and death]

written as, for example, (1912 – 1987) or, if the person is still alive, (b. 1949)

\*/

import java.util.Scanner;

public class YourName\_S\_01 {

public static void main (String [ ] args) {

Scanner console = new Scanner(System.in);

double num1 = 0.0; // Input value 1

double num2 = 0.0; // Input value 2

double average = 0.0; // Average of the input values

// Explain the program to the user

System.out.println("This program averages two real numbers.");

// Input the two numbers

System.out.print("Input your first number: ");

num1 = console.nextDouble();

System.out.print("Input your second number: ");

num2 = console.nextDouble();

// Calculate the average of the two numbers

average = (num1 + num2) / 2.0;

// Output the results

System.out.print("The average of " + num1);

System.out.println(" and " + num2 + " is " + average);

System.out.println("your name");

// Close files and exit

console.close();

System.exit(0);

} // End main

} // End class