CS 1050, Mr. Kramer Programming Assignment #3 # of points: 20

Purpose: Calculate gross pay, savings and investment using JOptionPane for input and output.

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

If you are handing in a revision, submit the original graded versions also with the most current version on top. Staple all submissions of this assignment together.

Revise Program #2 to use one dialog box for input and one dialog box for output. To use dialog boxes, you will need to use JOptionPane.

Follow the directions as in Program #2 except:

1. Use the class name YourName\_S\_03 (S = your section number) as the name of the file

2. No explanation to the user is needed and no Scanner is needed

3. Enter the gross pay, savings investment rate and IRA investment rate in one dialog box – separate the numbers by spaces.

In order for this to work, you will need to use a StringTokenizer and the snippets of code below.

import javax.swing.JOptionPane; // These three statements go at the start of the source code

import java.text.DecimalFormat; // before the “public class …” statement

import java.util.StringTokenizer;

In the main program:

double grossPay, savingsRate, IraRate; // The input numbers

String inputStr; // The line that is input from the user

StringTokenizer st; // The Tokenizer to split a string

inputStr = JOptionPane.showInputDialog(

“Enter gross pay, savings rate and IRA rate separated by spaces”);

st = new StringTokenizer(inputStr);

grossPay = Double.parseDouble(st.nextToken());

savingsRate = Double.parseDouble(st.nextToken());

IraRate = Double.parseDouble(st.nextToken());

4. What numbers should you use to test the program to ensure that it works?

5. Use DecimalFormat to format your output, all to two decimal places. Output should be in ONE dialog box with an appropriate messages on each of the **five** lines in the box. The five lines are:

The three input numbers formatted to two decimal places

The savings amount formatted to two decimal places

The IRA investment amount formatted to two decimal places

The total of the savings and IRA investment amount

Your Name

Include program header and comments as in Programs #1 and #2. Email a single file with the source code (the .Java file, not the .class file) as an attachment to [kramerd@msudenver.edu](mailto:kramerd@msudenver.edu). *This is the only assignment that is emailed; all other assignments are submitted on paper*. I will run your program. Do NOT send a .zip file or .class file! The email submission is due on the day shown on the Course at a Glance.