CS 1050, Mr. Kramer Programming Assignment #2 # of points: 20

Purpose: Calculate gross pay, savings and investment.

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 (and input and output) on top. Staple all submissions of this assignment together.

Write a Java program named as usual, YourName\_S\_02 (S = Section #), to execute the steps below. Write your program so that the steps are done in the order listed.

1. Output an explanation of what the program does. This should include information about the input and output.

2. Prompt for the input of three real numbers – type double – which are someone’s gross pay, savings rate percentage and IRA investment rate percentage. Note you are entering percentages like 10.0, and not the decimal equivalent. (How will you convert the rates to numbers you can use in calculations?) Read the three numbers and don’t do any error checking. Use the style of Program Assignment #1 for the input.

1. From the input, calculate the amount that goes into the savings account, the amount that goes into the IRA investment account and the total that goes into both accounts. What input values will you use to test that the program works?
2. Output, with appropriate messages, one per line:

The gross pay, savings percentage rate, IRA investment rate, amount that goes into savings, amount that goes into the IRA investment account, and the total of what goes into both accounts.

Also output your name on the next line after the above information.

The style of the program should be similar to that of Program Assignment #1. Include the comments section as at the top of assignment 1: programmer identification, purpose, version of Java used, vocabulary word and quotation. Include comments that explain variables, and some comments in the body of the code (divide the code into blocks and comment each block).

By hand, write your name, section number, and Asgn #2 in the upper-right hand corner of the top page and staple the program and screen output. The top page should be the source code.

Hand in:

A printed copy of the source program with line numbers. Do not use screen prints for the program. A screen print showing the input and output.

Note: also run your program with numbers that are not reasonable gross pay, savings percentage rates and IRA investment numbers. Examples are gross pay less than 0 or percentages less than 0.