COP-2250 Java Programming

Programming Assignment 5

FIU Knight Foundation School of Computing & Information Sciences

1 Problem Specification

For this programming assignment, you will be completing the implementation of a java program for the checkout system of a grocery store which sells rice by 10-lbs bags, eggs by the dozen, and bread by loaf, caviar by ounce, and meat by pound.

Your program must first print out the following message on screen:

> "Welcome to the checkout system of Awesome Grocery Store!
>
> Please enter the number of 10-lbs bags of rice: "

After the user enters the number of rice bags using keyboard, your program will ask for the name of picked rice. After user enters the name of the picked rice, your program repeat the Q/A for eggs, bread, caviar and meat. This part of the program is already implemented in the main method of class GroceryStore.

In the next step, your program will calculate the total cost of sold items excluding tax (called SUBTOTAL), total tax, and total cost including tax (called TOTAL) and print out the receipt in the followig form:

- name, number of bags, and price of rice (if number of bags is not zero)

- name, number of loaves, and price of bread (if number of loaves is not zero)

- name, number of eggs, and price of egg (if number of eggs is not zero)

- name, weight of caviar in ounces, and price of caviar (if weight is not zero)

- name, weight of meat, and price of meat (if weight is not zero)

- subtotal (rounded w/ 2 digits of precision)

- tax (rounded w/ 2 digits of precision)

- total (rounded w/ 2 digits of precision)

2   Submissions

You need to submit a single zip file compressing all .java files of all the classes that are in your program.

3   Grading Criteria

- Code readability: 10%

- Using comments to explain every line of the program: 10%

- Correctness of Java syntax (no compilation error): 10%

- Proper use of getters/setters: 20%

- Correctness of calculation formulas: 20%

- Proper print of messages on screen: 20%

- Proper use of constructors: 10%