

Queens College, CUNY
Department of Computer Science

CSCI 212 – Fall 2015 – Project 1

Assigned: 8 October 2015
Due Date: 22 October 2015
Cut Off: 26 October 2015

We will write a simulation of someone shopping in a grocery store for produce (fruits and vegetables). An input file will contain the code number and the weight of the item being purchased. A database will contain the code number, the name of the item (such as “Pineapple”) and the price per pound.

Create a class called `ProduceItem` with three instance variables for the code (`String`), name (`String`) and price (`float`). Include appropriate constructors, `get/set` methods and overrides of class `Object`.

Create a class for the database. It should contain an array which will store all the `ProduceItems` (that will be read in from a file). This class should contain, among others, methods that will return the name and the price of an item with a given code:

```
String getName(String code);  
float getPrice(String code);
```

The output of the program should be a `JFrame` (a separate GUI class) that serves as a receipt for the customer. It should contain, one per line, the name, price, weight and total cost of each item, and at the end the total cost of all purchases.

Submit the project through Blackboard by the due date for full credit. Note that you will be uploading multiple files (i.e., the main application, the `ProduceItem`, the database, and the Receipt GUI).