

COSC 1336 – Programming Fundamentals I Bonus Program

Write a class named *Retail_Item* that holds data about an item in a retail store. The class should store the following data in attributes:

- Item Number
- Item Description
- Units in Inventory
- Price

Create another class named *Cash_Register* that can be used with the *Retail_Item* class. The *Cash_Register* class should be able to internally keep a list of *Retail_Item* objects. The class should include the following methods:

- A method named *purchase_item* that accepts a *Retail_Item* object as an argument. Each time the *purchase_item* method is called, the *Retail_Item* that is passed as an argument should be added to the list.
- A method named *get_total* that returns the total price of all the *Retail_Items* objects stored in the *Cash_Register*'s internal list.
- A method named *show_items* that displays data about the *Retail_Item* objects stored in the *Cash_Register* object's internal list.
- A method named *clear_items* that should clear the *Cash_Register* object's internal list.

Write a main function that uses the *Cash_Register* class to allow the user to select several items for purchase. When the user is ready to check out, the program should display a list of all the items he or she has selected for purchase, as well as the total price, taxes (8.25%), and the final price.

You will not get credit if the program is not written or does not work as expected.

Run the program with your own data and save the output as **Bonus-Output.py** (Do a "Save As" in the Python Shell Window and it will save as a ".py" file. See Appendix B of your Textbook for more details). Create a folder named, **Fullname_Bonus**. Copy your source code and the output file to the folder. Zip the folder, as a ".zip" file, and upload it to Blackboard.

When you upload your source code and output to Blackboard, schedule a time with me to answer a few questions about your code. You must answer all questions correctly to get credit for the program.

Initial Inventory

Item Number	Description	Units in Inventory	Price
1000	Pants	10	19.99
2000	Jeans	2	25.95
3000	Shirt	15	12.50
4000	Dress	3	79.00
5000	Socks	50	1.98
6000	Sweater	5	49.99
7000	Jacket	1	85.95

Program Menu

1. Pants
2. Jeans
3. Shirt
4. Dress
5. Socks
6. Sweater
7. Jacket
8. Clear Cash Register
9. Show Inventory
10. Check Out