

SHOPPING CART

Create an online shopping cart for the famous Supermarket in the town.

Instance Variables:

1. Create a class which has the instance variables as customer id, customer name and phone number.
2. Create a method, which verifies the customer id of the customer, The customer id should follow AbC1234Ad pattern - Where the AbC is the name of the supermarket and 1234 is the random generated customer id and Ad- stands for the location of supermarket. Eg; Ad- means Adyar branch, Bn-Basant nagar, In-indira nagar, Tn-T-nagar.
3. Only if the customer id follows this pattern then they are allowed to continue to the shopping menu, else ask the customer to register online, in registration get the customer name, phone number, location and Permanent location, where the items have to be delivered.

Note: Once registration is done the customer id has been generated in the above mentioned pattern.

4. Create another method, which displays the items for the customer to shop, all the items should be in the dictionary such that items should be the key and the values should have the corresponding price.
5. Create an empty cart-(list) which is used to add the items by the customer, when each item is picked, ask the user the Quantity, based on the quantity calculate the price of the item.
6. Maintain the cart(list) which is having the sublist that has the item chosen by the customer and the total price of the item.

INHERITANCE:

1. Create a child class for the previous class.
2. Inherit the properties of the base class.
3. In this class the customer selects only either sugar, rice and Atta and their quantity.----So sugar, rice, atta should not be available in the previous class.
4. Create a method, which will calculate the discount for the certain items.
Sugar-1kg----->discount 5%
Sugar-5kg----->discount 10%
Rice-10kg----->discount 4%

Rice-25kg----->discount 8%

Atta-5kg----->discount 6%

Atta-10kg----->discount 12%

5. Return the cart total price after adding the items mentioned above.
6. Create another method which is finally regenerating the receipt for all the items selected.
7. In this method the user has to pass the place for delivery .
Adyar-delivery charge 20.
Besant Nagar -delivery charge 40
Indira Nagar- delivery charge 50
T-nagar-delivery charge -70
8. If the user enters any other place other than these places , display
"Sorry online delivery is not available, do you wish to pick it up from our store".
9. If a customer wishes to pick it up from the store then don't charge for the delivery, else charge the delivery charge based on the area chosen by the customer.
10. Finally generate the Bill which has the customer name, id and phone number and the total cart price with the delivery charge the total Amount.