Shopping Cart

This assignment is to build a Shopping Cart class analogous to your online shopping.

The **item** class
Each item will have the information like product name,quantity and unit price.

The **ShoppingCart** class
User should be able to do the following operations on the cart:

addToCatalog(Item item)
Add the item to the catalog.

addToCart(Item item):
Add the item to the cart.

removeFromCart(Item item):
Remove the item from the cart.

showCart():
Display all the items in the cart with item name and quantity.

showCatalog():
Display all the items in the catalog with item name,quantity and price.

getTotalAmount():
Calculate the total amount for the items in the cart.

getPayableAmount():
Gets the payable amount, by deducting discount (if any) and add tax(15%) to the total amount of items in cart.
Following are the discount percentages which need to be deducted from the total amount:
Valid Coupons:
IND10-10% Discount
IND20-20% Discount
IND30-30% Discount
IND50-50% Discount

applyCoupon():
Apply a coupon code.

printInvoice():

Display all the items with the quantity, unit price, total amount and payable amount.
    * apply coupon if valid

Instructions:
First line contains number of lines.
Following are the different options:
Item:- Add the item to the catalog(Hint: Catalog array)
catalog:Display all the items in the catalog.
Add: add the item to the cart.(Hint : cart array)
Show: Display all the items in the cart.
totalAmount: Display the total amount.
payableAmount:Display the payable amount.
Remove:remove the item from the cart.
Coupon:apply coupon code
Print: print the invoice in the following format.
ItemName Itemquantity Itemprice
Xyz   1   100
totalAmount:100
Disc:0.0(applied,if coupon is valid)
Tax:15
Payable amount:115

Sample Input:
18
Item greentea,128,120
Item Eggs,65,5
Item rice5kg,109,300
Item curd,22,30
Item cofee,81,300
catalog
add curd,19
add cofee,16
show
totalAmount
remove curd,5
show
totalAmount
remove cofee,1
show
totalAmount
payableAmount
print

Sample Output:

greentea 128 120.0

Eggs 65 5.0

rice5kg 109 300.0

curd 22 30.0

cofee 81 300.0

curd 19

cofee 16

totalAmount: 5370.0

curd 14

cofee 16

totalAmount: 5220.0

curd 14

cofee 15

totalAmount: 4920.0

Payable amount: 5658.0

Name   quantity   Price

curd 14 30.0

cofee 15 300.0

totalAmount: 4920.0

Disc%:0.0

Tax:738.0

Payable amount: 5658.0