Zoho Programming Test - L3

Duration - 3

- Any language can be used for writing programs
- Read the questions clearly and inform invigilators before starting to code
- Talk to the invigilators for any clarification

Write a program to perform pharmacy medicine management and billing.

- A Pharmacy has 'n' number of branches in a City.
- Each branch contains 'n' number of medical products
- Each product can have 1 alternate product. E.g., For crocin, alternate pro
  doloper.
- Each pharmacy branch has stock of certain quantity of above products
- Each product has a price associated with it.
- A customer can purchase any quantity of the above products. Customer
  purchases have to be stored.
- If a product is not available, an alternate product can be suggested and
  confirmation, it can be purchased.
- Try to allocate the same product for required quantity if available. For e.g.
  crocin available is 2 and doloper available is 5 and if the required quantity
  then allow purchase of doloper.
- If an alternate product is also not available, another Branch can

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- Try to allocate the same product for required quantity if available. For e.g., if crocin available is 2 and doloper available is 5 and if the required quantity is then allow purchase of doloper.
- If an alternate product is also not available, another Branch can be suggested stock is available in that branch.

Write a program that performs the following tasks,

Task 1 : Add Branch

Allow the addition of pharmacy branches. Print the branch summary as follows

Branch ID	Branch Location	Phone Number
	Guduvanchery	9999999999
1	Tambaram	8888888888
2		

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Allow the addition of pharmacy branches. Print the branch summary as follows:

Branch ID	Branch Location	Phone Number
1	Guduvanchery	9999999999
2	Tambaram	8888888888

Task 2 : Add stock to a Pharmacy Branch

Add product stock to the pharmacy.
Print the stock summary as follows:

Branch ID	Medicine	Available Qty	Price
1	crocin	10	10.00
1	doloper	10	10.00
2	crocin	10	10.00
2	vicco	10	50.00
2	boro	10	62.00

Task 3 : Associate alternate products

Task 2 : Add stock to a Pharmacy Branch

Add product stock to the pharmacy.
Print the stock summary as follows:

Branch ID	Medicine	Available Qty	Price
1	crocin	10	10.00
1	doloper	10	10.00
2	crocin	10	10.00
2	vicco	10	50.00
2	boro	10	60.00

Task 3 : Associate alternate products

Allow association of alternate products and print the summary

Medicine	Alternate
crocin	doloper
vicco	boro

Task 4 : Add Customer

Task 3 : Associate alternate products

Allow association of alternate products and print the summary

Medicine	Alternate
crocin	doloper
vicco	boro

Task 4 : Add Customer

Allow the addition of Customer details.
Print the Customer summary as follows:

Customer ID	Customer Name	Phone Number
1	John	9876543210
2	Babu	9753108642

Task 5 : Purchase product

Allow purchase of products from branches

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Allow purchase of products from branches.

Input :

Enter customer id : 2
Enter Branch : 1
Enter product : crocin
Enter quantity : 8

Do you want to continue : yes,

Enter product : doloper
Enter quantity : 3

Do you want to continue : no, print the below table and exit.

Output :

Branch ID	Transaction ID	Customer ID	Medicine	Quantity	Price
1	1	2	crocin	8	4.32
1	1	2	doloper	3	

Then Tamil Amudhan S Suresh
Today at 9:00 AM

Branch ID	Transaction ID	Customer ID	Medicine	Quantity	Price
1	1	2	crocin	8	8.00
1	1	2	doloper	3	3.00

Input :

Enter customer id : 1
Enter Branch : 1
Enter product : crocin
Enter quantity : 3

Quantity not available.
Do you want to purchase doloper ? Y
Purchased 3 doloper. Price=3.00

Do you want to continue : yes,

Enter product : crocin
Enter quantity : 10
Quantity not available in this branch. Available in Branch-2

Do you want to continue : no, print the below table and exit.

Output :

Then Tamil Amudhan S Suresh
◷ Today at 9:00 AM

Enter quantity : 10

Quantity not available in this branch. Available in Branch-2

Do you want to continue : no, print the below table and exit.

Output :

Branch ID	Transaction ID	Customer ID	Medicine	Quantity	Price
1	2	1	crocin	3	3.00

Task 6 : Print summary of purchases

Print the summary of all purchases as follows

Branch ID	Transaction ID	Customer ID	Medicine	Quantity	Price
1	1	2	crocin	8	8.30
1	2	1	doloper	3	3.00

Task 7 : Print customer purchase summary

Enter customer id : 1

Branch ID	Transaction ID	Customer ID	Medicine	Quantity	Price
1	1	2	crocin	8	8.00
1	2	1	doloper	3	3.00

Task 7 : Print customer purchase summary

Enter customer id : 1

Transaction ID	Branch	Medicine	Quantity	Price
2	1	doloper	3	3.00
5	1	doloper	4	4.00

Additional Questions

Each product can have multiple alternate products (instead of single)

Each branch can provide different amount of discount to different medicines.