

Week 5

Programs that can be tried out in lab today are given here. Complete all of these and upload in github as Additional programs done before T1.

1. Create a class Customer with the following specifications.

Private Members : Customer_no , Customer_name, Qty , Price, TotalPrice, Discount, Netprice.

Methods: Public members:

1. A parameterized constructor to assign initial
2. Input() – to read data members. Call Calcdiscnount().
3. Calcdiscnount () – To calculate Discount according to TotalPrice and NetPrice
 $TotalPrice = Price * Qty$

TotalPrice >= 50000 – Discount 25% of TotalPrice

TotalPrice >= 25000 - Discount 10% of TotalPrice

Netprice = TotalPrice - Discount

4. Show() – to display Customer details.

Develop a Java program to accept details of n customers, calculate the discounts given to them and print their complete Details.

Code:-

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4.Show() – to display Customer details.

Develop a Java program to accept details of n
customers, calculate the discounts given to them and print their complete
details.*/*

/*-----*/

```
import java.util.Scanner;  
class Customer
```

```

{
    Scanner x = new Scanner(System.in);
    private int customer_no,qty;
    private double price,tot_price,discount,netprice;
    private String customer_name;
    Customer(int number)
    {
        this.customer_no = number;
    }

    public void Input()
    {
        System.out.println("Enter name:");
        this.customer_name = x.next();
        System.out.println("Enter quantity:");
        this.qty = x.nextInt();
        System.out.println("Enter price:");
        this.price = x.nextFloat();
    }

    public void Caldiscount()
    {
        this.tot_price = this.qty*this.price;
        if(this.tot_price>=50000)
        {
            this.netprice = this.tot_price*(1-0.25);
        }
        else if(this.tot_price>=25000)
        {
            this.netprice = this.tot_price*(1-0.1);
        }
        else
        {
            this.netprice = this.tot_price;
        }
    }
}

```

```

public void Show()
{
    System.out.println("Name of customer:"+this.customer_name);
    System.out.println("Number of customer:"+this.customer_no);
    System.out.println("Price:"+this.price);
    System.out.println("Quantity:"+this.qty);
    System.out.println("Total price:"+this.tot_price);
    System.out.println("Net Price:"+this.netprice);

}
}

```

```

class Cust_main
{
    public static void main(String args[])
    {
        Scanner x = new Scanner(System.in);
        int number;
        Customer[] cust_arr = new Customer[2];
        for(int i=0; i<2; i++)
        {
            System.out.println("Enter number:");
            number = x.nextInt();
            cust_arr[i] = new Customer(number);
        }

        for(int i=0; i<2; i++)
        {
            cust_arr[i].Input();
            cust_arr[i].Caldiscount();
            cust_arr[i].Show();
            System.out.println("-----");
        }
    }
}

```

Out put:-

```
C:\WINDOWS\system32\cmd.exe - java Cut_main
Microsoft Windows [Version 10.0.19044.2364]
(c) Microsoft Corporation. All rights reserved.

C:\Users\BMSCE>cd C:\Users\BMSCE\Desktop\IBM21CS059\customer
C:\Users\BMSCE\Desktop\IBM21CS059\customer>javac cust.java
C:\Users\BMSCE\Desktop\IBM21CS059\customer>java cust
Error: Could not find or load main class cust
C:\Users\BMSCE\Desktop\IBM21CS059\customer>java cust
Error: Could not find or load main class cust
C:\Users\BMSCE\Desktop\IBM21CS059\customer>javac Cust_main.java
C:\Users\BMSCE\Desktop\IBM21CS059\customer>java Cust_main
Enter number:
1
Enter number:
111
Enter name:
charan
Enter quantity:
33
Enter price:
4000
Name of customer:charan
Number of customer:1
Price:4000.0
Quantity:33
Total price:132000.0
Net Price:99000.0
-----
Enter name:
```