NAME-TASHMIT VERMA

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PROGRAM-

import java.util.Scanner;

class item{

    String name;

    float price;

    int available\_stock;

    boolean discount\_offer;

    float disc\_percentage;

    item(String n, float p, int s, boolean d, float dp){

        name=n;

        price=p;

        available\_stock=s;

        discount\_offer=d;

        disc\_percentage=dp;

    }

    float getPrice(){

        if(discount\_offer)

            return price-((price\*disc\_percentage)/100);

        else

            return price;

    }

    String getName(){

        return name;

    }

}

class online\_purchase{

    item \_list[];

    Scanner sc= new Scanner(System.in);

    customer\_history ch[];

    final int pin=1234;

    static int customer\_number;

    online\_purchase(){

        \_list=new item[6];

        ch=new customer\_history[100];

        \_list[0]=new item("Fridge",70000,10, true, 5);

        \_list[1]=new item("Smart TV",200000,20, true, 10);

        \_list[2]=new item("Laptop",80000,4, false, 0);

        \_list[3]=new item("Iphone",90000,1, false, 0);

        \_list[4]=new item("Air Conditioner",60000,20, true, 15);

        \_list[5]=new item("Smart Watch",25000,30,true,12);

    }

    void getList(){

        int i;

        for(i=0;i<\_list.length;i++)

            System.out.println(i+1+" "+ \_list[i].getName() + " Price : "+ \_list[i].price);

    }

    void getAvailableStock(){

        int i;

        int k=1;

        System.out.println("Currently in Stock");

        for(i=0;i<\_list.length;i++){

            if(\_list[i].available\_stock>5)

                System.out.println((k++)+". "+\_list[i].getName() +" - "+ \_list[i].available\_stock);

        }

        k=1;

        System.out.println("Running Low on Stock");

        for(i=0;i< \_list.length;i++){

            if(\_list[i].available\_stock>0 && \_list[i].available\_stock<=5)

                System.out.println((k++)+". "+\_list[i].getName() +" - "+ \_list[i].available\_stock);

        }

        k=1;

        System.out.println("Currently out of Stock");

        for(i=0;i<\_list.length;i++){

            if(\_list[i].available\_stock==0)

                System.out.println((k++)+". "+\_list[i].getName());

        }

        if(k==1)

            System.out.println("None");

    }

    void purchase(){

        int opt;

        char ans;

        System.out.println("Which item would you like to purchase, press the item number ");

        opt=sc.nextInt();

        if(\_list[opt-1].available\_stock >0){

            if(\_list[opt-1].discount\_offer){

                System.out.println("You have chosen to buy a "+ \_list[opt-1].getName());

                System.out.println("The current price in the market is "+ \_list[opt-1].price);

                System.out.println("Your selected item is available for a special discount, the new price after discount is "+\_list[opt-1].getPrice());

                System.out.println("Would you like to proceed with your purchase, press y to proceed or any other character to decline");

                ans=sc.next().charAt(0);

                if(ans=='y' || ans=='Y'){

                    System.out.println("Please enter your name");

                    sc.nextLine();

                    String name=sc.nextLine();

                    System.out.println("Congratulations on your purchase, your "+\_list[opt-1].getName()+" will be delivered within 1-2 business days");

                    ch[customer\_number++]=new customer\_history(name,\_list[opt-1]);

                    \_list[opt-1].available\_stock--;

                }

                else{

                    System.out.println("Enjoy Browsing");

                }

            }

            else{

                System.out.println("You have chosen to buy a "+ \_list[opt-1].getName());

                System.out.println("The current price in the market is "+ \_list[opt-1].price);

                System.out.println("There no discount available for the selected item at the current moment");

                System.out.println("Would you like to proceed with your purchase, press y to proceed or any other character to decline");

                ans=sc.next().charAt(0);

                if(ans=='y' || ans=='Y'){

                    System.out.println("Please enter your name");

                    sc.nextLine();

                    String name=sc.nextLine();

                    System.out.println("Congratulations  on your purchase, your "+\_list[opt-1].getName()+" will be delivered within 1-2 business days");

                    ch[customer\_number++]=new customer\_history(name,\_list[opt-1]);

                    \_list[opt-1].available\_stock--;

                }

                else{

                    System.out.println("Enjoy Browsing");

                }

            }

        }

        else{

            System.out.println("The selected item is out of stock, we apologise for the inconvenience");

            return;

        }

    }

    void getCustomerHistory(int n){

    if(n==pin) {

    if(customer\_number==0){

        System.out.println("No Details- List empty");

        return;

    }

        int i;

        for (i = 0; i < customer\_number; i++) {

            System.out.println((i + 1) + ". " + ch[i].getDetails());

        }

    }

    else{

        System.out.println("Pin does not match- Access denied");

    }

    }

}

class customer\_history{

    String name;

    item it;

    customer\_history(String n, item i){

        name=n;

        it=i;

        printBill();

    }

    void printBill(){

        System.out.println("------------Webstore Electronics------------");

        System.out.println("Customer Name : "+name);

        System.out.println("Item purchase : "+it.getName());

        System.out.println("Item price : "+it.price);

        System.out.println("Final price after discount "+ it.getPrice());

        System.out.println("Amount Paid in full");

        System.out.println("------------ Thank You ------------");

    }

    String getDetails(){

        return ("Name : "+name+" Item purchased : "+it.getName()+" Amount paid : "+it.getPrice());

    }

}

public class Main {

    public static void main(String[] args) {

    Scanner sc=new Scanner(System.in);

    online\_purchase webstore=new online\_purchase();

        int ch=0, opt,pin;

        char ans;

        while(ch!=4){

            System.out.println("Enter your option");

            System.out.println("1. Get item list");

            System.out.println("2. Customer History (admin pin required)");

            System.out.println("3. Get Available stock of items");

            System.out.println("4. Exit");

            ch=sc.nextInt();

            switch (ch){

                case 1:

                    webstore.getList();

                    System.out.println("Would you like to place a order, press y to continue or n to go to main options");

                    ans=sc.next().charAt(0);

                    if(ans=='y' || ans == 'Y'){

                       webstore.purchase();

                    }

                    break;

                case 2:

                    System.out.println("Enter your pin");       //ADMIN PIN IS 1234

                    sc.nextLine();

                    pin=sc.nextInt();

                    webstore.getCustomerHistory(pin);

                    break;

                case 3:

                    System.out.println("Stock List");

                    webstore.getAvailableStock();

                    break;

                case 4:

                    System.out.println("Thank you for your time with us");

                    System.out.println("Do visit our website again");

                    break;

                default:

                    System.out.println("Invalid Choice");

                    break;

            }

            System.out.println();

        }

    }

}

OUTPUT-



