```
abstract class DesertItem {
}
```

```
public class Candy extends DesertItem{
    int quant;
    public int addCandies(int candies){
        quant+=candies;
        return quant;
    }
    public int getCost()
    {
        return quant*60;
    }
}
```

```
public class Cookie extends DesertItem{
    int quant;
    public int addCookies(int candies){
        quant+=candies;
        return quant;
    }
    public int getCost()
    {
        return quant*60;
    }
}
```

```
public class IceCream extends assignment207{
    int quant;
    public int addIceCreams(int candies){
        quant+=candies;
        return quant;
    }
    public int getCost()
    {
        return quant*10;
    }


}
```

```
import java.util.Scanner;

public class assignment207 {
    public static void main(String[] args) { assignment207 obj= new
assignment207();
        obj.selectRoles();
    }
    private void selectRoles(){
        Scanner in = new Scanner(System.in);
        System.out.println("Select Roles: \n1.Owner\n2.Customer");
        int x=0;1
        x=in.nextInt();
        if(x==1)
            roles("Owner");
        else
            roles("Customer");
        in.close();
    }
    private void roles(String role){
        if(role.equals("Owner"))
            addItems();
        else
            placeOrder();
    }
    private void addItems() {
        System.out.println("Add Items: \n1.Candy\n2.Cookie\n3.IceCream");
        Scanner in = new Scanner(System.in);
        int x=in.nextInt();
        addItemsOperation(x);
        in.close();
    }
    private void addItemsOperation(int choice) {
        if(choice==1)
        {
            Candy x= new Candy();
            Scanner in = new Scanner(System.in);
            System.out.println("Quantity to be added:");
            int candies=in.nextInt();
            x.addCandies(candies);
            System.out.println("Total Quantity "+x.quant);
            in.close();
        }
        else if(choice ==2)
        {
            Cookie x= new Cookie();
            Scanner in = new Scanner(System.in);
            System.out.println("Quantity to be added:");
            int candies=in.nextInt();
            x.addCookies(candies);
            System.out.println("Total Quantity "+x.quant);
            in.close();
```

```
        }
        else
        {
            IceCream x= new IceCream();
            Scanner in = new Scanner(System.in);
            System.out.println("Quantity to be added:");
            int candies=in.nextInt();
            x.addIceCreams(candies);
            System.out.println("Total Quantity "+x.quant);
            in.close();
        }
    }
    private void placeOrder() {
        System.out.println("Add Items: \n1.Candy\n2.Cookie\n3.IceCream");
        Scanner in = new Scanner(System.in);
        int x=in.nextInt();
        placeOrderOperation(x);
        in.close();
    }
    private void placeOrderOperation(int choice) {
        if(choice==1)
        {
            Candy x= new Candy();
            Scanner in = new Scanner(System.in);
            System.out.println("Quantity to be added:");
            int candies=in.nextInt();
            x.addCandies(candies);
            System.out.println("Total Amount: "+x.getCost());
            in.close();
        }
        else if(choice ==2)
        {
            Cookie x= new Cookie();
            Scanner in = new Scanner(System.in);
            System.out.println("Quantity to be added:");
            int candies=in.nextInt();
            x.addCookies(candies);
            System.out.println("Total Amount: "+x.getCost());
            in.close();
        }
        else
        {
            IceCream x= new IceCream();
            Scanner in = new Scanner(System.in);
            System.out.println("Quantity to be added:");
            int candies=in.nextInt();
            x.addIceCreams(candies);
            System.out.println("Total Amount: "+x.getCost());
            in.close();
        }

    }
}
```