INPUT:-

```
import java.text.DecimalFormat;
import java.util.ArrayList;
import java.util.List;
interface PaymentStrategy {
       public void pay(int amount);
}
class ShoppingCart {
       //List of items
       List<Item> items;
       public ShoppingCart(){
              this.items=new ArrayList<Item>();
       }
       public void addItem(Item item){
              this.items.add(item);
       }
       public void removeItem(Item item){
              this.items.remove(item);
       }
```

```
public int calculateTotal(){
              int sum = 0;
              for(Item item : items){
                     sum += item.getPrice();
              }
              return sum;
       }
       public void pay(PaymentStrategy paymentMethod){
              int amount = calculateTotal();
              paymentMethod.pay(amount);
       }
}
class Item {
       private String upcCode;
       private int price;
       public Item(String upc, int cost){
              this.upcCode=upc;
              this.price=cost;
       }
       public String getUpcCode() {
              return upcCode;
       }
```

```
public int getPrice() {
              return price;
       }
}
class PaypalStrategy implements PaymentStrategy {
       private String emailId;
       private String password;
       public PaypalStrategy(String email, String pwd){
              this.emailId=email;
              this.password=pwd;
       }
       @Override
       public void pay(int amount) {
              System.out.println(amount + " paid using Paypal.");
       }
}
 class CreditCardStrategy implements PaymentStrategy {
       private String name;
       private String cardNumber;
       private String cvv;
       private String dateOfExpiry;
```

```
public CreditCardStrategy(String nm, String ccNum, String cvv, String expiryDate){
              this.name=nm;
              this.cardNumber=ccNum;
              this.cvv=cvv;
              this.dateOfExpiry=expiryDate;
       }
       @Override
       public void pay(int amount) {
              System.out.println(amount +" paid with credit/debit card");
       }
}
public class ShoppingCartTest {
       public static void main(String[] args) {
              ShoppingCart cart = new ShoppingCart();
              Item item1 = new Item("1234",60);
              Item item2 = new Item("5678",40);
              cart.addItem(item1);
              cart.addItem(item2);
              //pay by paypal
```

```
cart.pay(new PaypalStrategy("myemail@example.com", "pwd"));

//pay by credit card

cart.pay(new CreditCardStrategy("Aparna Bindage", "1234567890123456",
"786", "12/15"));

}

/*

OUTPUT:

100 paid using Paypal.

100 paid with credit/debit card
*/
```