import java.util.ArrayList;

import java.util.List;

// Item class

public 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;

}

}

// PaymentStrategy interface

public interface PaymentStrategy {

void pay(int amount);

}

// PaypalStrategy class

public 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 + &quot; paid using PayPal.&quot;);

}

}

// CreditCardStrategy class

public 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 + &quot; paid with credit/debit card.&quot;);

}

}

// BitcoinStrategy class

public class BitcoinStrategy implements PaymentStrategy {

private String bitcoinAddress;

public BitcoinStrategy(String bitcoinAddress) {

this.bitcoinAddress = bitcoinAddress;

}

@Override

public void pay(int amount) {

System.out.println(amount + &quot; paid using Bitcoin to address: &quot; + bitcoinAddress);

}

}

// ShoppingCart class

public class ShoppingCart {

// List of items

List&lt;Item&gt; items;

public ShoppingCart() {

this.items = new ArrayList&lt;Item&gt;();

}

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);

}

}

// ShoppingCartTest class

public class ShoppingCartTest {

public static void main(String[] args) {

ShoppingCart cart = new ShoppingCart();

Item item1 = new Item(&quot;1234&quot;, 60);

Item item2 = new Item(&quot;5678&quot;, 40);

cart.addItem(item1);

cart.addItem(item2);

// Pay by PayPal

cart.pay(new PaypalStrategy(&quot;myemail@example.com&quot;, &quot;pwd&quot;));

// Pay by Credit Card

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

// Pay by Bitcoin

cart.pay(new BitcoinStrategy(&quot;1A1zP1eP5QGefi2DMPTfTL5SLmv7DivfNa&quot;));

}

}