

```

package strategypattern;
import java.util.Scanner;
public interface PaymentStrategy
{
    void pay(int amount);
}
public class CreditCardPayment implements PaymentStrategy
{
    private String cardNumber;
    public CreditCardPayment(String cardNumber)
    {
        this.cardNumber = cardNumber;
    }
    public void pay(int amount)
    {
        System.out.println("Paid " + amount + " using Credit Card.");
    }
}
public class PayPalPayment implements PaymentStrategy
{
    private String email;
    public PayPalPayment(String email)
    {
        this.email = email;
    }
    public void pay(int amount)
    {
        System.out.println("Paid " + amount + " using PayPal.");
    }
}
public class BitcoinPayment implements PaymentStrategy
{
    private String walletAddress;
    public BitcoinPayment(String walletAddress)
    {
        this.walletAddress = walletAddress;
    }
    public void pay(int amount)
    {
        System.out.println("Paid " + amount + " using Bitcoin.");
    }
}
public class ShoppingCart
{
    private int totalAmount;
    public void addItem(int price)
    {
        totalAmount += price;
    }
    public void pay(PaymentStrategy strategy)
    {
        strategy.pay(totalAmount);
    }
}
public class TestStrategyPattern

```

```

{
    public static void main(String[] args)
    {
        int ui;
        ShoppingCart cart = new ShoppingCart();
        cart.addItem(100);
        cart.addItem(200);
        Scanner scanner = new Scanner(System.in);
        System.out.println("Choose payment method: \n1. Credit Card \n2. PayPal \n3. Bitcoin");
        ui = scanner.nextInt();
        scanner.nextLine(); // consume newline
        PaymentStrategy paymentStrategy;
        switch (ui)
        {
            case 1: System.out.println("Enter Credit Card number:");
                    String cardNumber = scanner.nextLine();
                    paymentStrategy = new CreditCardPayment(cardNumber);
                    break;
            case 2: System.out.println("Enter PayPal email:");
                    String email = scanner.nextLine();
                    paymentStrategy = new PayPalPayment(email);
                    break;
            case 3: System.out.println("Enter Bitcoin wallet address:");
                    String walletAddress = scanner.nextLine();
                    paymentStrategy = new BitcoinPayment(walletAddress);
                    break;
            default: System.out.println("Invalid choice");
                    scanner.close();
                    return;
        }
        cart.pay(paymentStrategy);
        scanner.close();
    }
}

```

Output:

Choose payment method:

1. Credit Card

2. PayPal

3. Bitcoin

1

Enter Credit Card number:

2496

Paid 300 using Credit Card.