```
import java.util.Scanner;
// Payment Strategy Interface
interface PaymentStrategy {
    void pay(double amount);
// Concrete Strategy: Credit Card Payment
class CreditCardPayment implements PaymentStrategy {
    private String cardNumber;
    private String cardHolderName;
    public CreditCardPayment(String cardNumber, String cardHolderName) {
        this.cardNumber = cardNumber;
        this.cardHolderName = cardHolderName;
    }
    @Override
    public void pay(double amount) {
        System.out.println("Paid " + amount + " using Credit Card ending
with ****" + cardNumber.substring(cardNumber.length() - 4));
}
// Concrete Strategy: PayPal Payment
class PayPalPayment implements PaymentStrategy {
    private String email;
    public PayPalPayment(String email) {
        this.email = email;
    @Override
    public void pay(double amount) {
        System.out.println("Paid " + amount + " using PayPal account: " +
email);
   }
// Concrete Strategy: Bitcoin Payment
class BitcoinPayment implements PaymentStrategy {
    private String walletAddress;
    public BitcoinPayment(String walletAddress) {
        this.walletAddress = walletAddress;
    }
    @Override
    public void pay(double amount) {
        System.out.println("Paid " + amount + " using Bitcoin Wallet: " +
walletAddress);
   }
}
```

```
// Shopping Cart Context
class ShoppingCart {
    private PaymentStrategy paymentStrategy;
    public void setPaymentStrategy(PaymentStrategy paymentStrategy) {
        this.paymentStrategy = paymentStrategy;
    public void checkout(double amount) {
        if (paymentStrategy == null) {
            System.out.println("Payment method not selected. Please
choose a payment method.");
            return;
        paymentStrategy.pay(amount);
    }
}
// Main Class to Test Strategy Pattern
public class ShoppingCartSystem {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        ShoppingCart cart = new ShoppingCart();
        System.out.println("Choose Payment Method:");
        System.out.println("1. Credit Card");
        System.out.println("2. PayPal");
        System.out.println("3. Bitcoin");
        System.out.print("Enter your choice: ");
        int choice = sc.nextInt();
        System.out.print("Enter amount to pay: ");
        double amount = sc.nextDouble();
        sc.nextLine(); // Consume newline
        switch (choice) {
            case 1:
                System.out.print("Enter Credit Card Number: ");
                String cardNumber = sc.nextLine();
                System.out.print("Enter Card Holder Name: ");
                String cardHolderName = sc.nextLine();
                cart.setPaymentStrategy(new CreditCardPayment(cardNumber,
cardHolderName));
                break;
            case 2:
                System.out.print("Enter PayPal Email: ");
                String email = sc.nextLine();
                cart.setPaymentStrategy(new PayPalPayment(email));
                break;
            case 3:
                System.out.print("Enter Bitcoin Wallet Address: ");
                String walletAddress = sc.nextLine();
                cart.setPaymentStrategy(new
BitcoinPayment(walletAddress));
```