**CODE:**

**//Interface**

**package** DesignPattern;

**public** **interface** PaymentMethod

{

**public** **abstract** **void** pay(**double** amount);

}

**//Class**

**package** DesignPattern;

**import** java.util.Scanner;

**public** **class** CreditCard **implements** PaymentMethod

{

**private** String name;

**private** **double** cardNumber;

**private** **int** cvv;

**private** String dateOfExpiry;

Scanner sc = **new** Scanner(System.***in***);

CreditCard()

{

System.***out***.println("Enter Name > > > ");

**this**.name=sc.next();

System.***out***.println("Enter Card Number > > > ");

**this**.cardNumber=sc.nextDouble();

System.***out***.println("Enter CVV > > > ");

**this**.cvv=sc.nextInt();

System.***out***.println("Enter Date of Expiry > > > ");

**this**.dateOfExpiry=sc.next();

}

@Override

**public** **void** pay(**double** amount)

{

System.***out***.println(amount + " Paid With Credit Card.");

}

}

**//Class**

**package** DesignPattern;

**import** java.util.Scanner;

**public** **class** PayPal **implements** PaymentMethod

{

**private** String loginId;

**private** String password;

Scanner sc = **new** Scanner(System.***in***);

PayPal()

{

System.***out***.println("Enter Login ID > > > ");

**this**.loginId=sc.next();

System.***out***.println("Enter Password > > > ");

**this**.password=sc.next();

}

@Override

**public** **void** pay(**double** amount)

{

System.***out***.println(amount + " Paid using Paypal.");

}

}

**//Class**

**package** DesignPattern;

**import** java.util.Scanner;

**public** **class** BitCoin **implements** PaymentMethod

{

**private** String walletId;

**private** **double** walletNumber;

**private** String walletPassword;

Scanner sc = **new** Scanner(System.***in***);

BitCoin()

{

System.***out***.println("Enter Wallet ID > > > ");

**this**.walletId=sc.next();

System.***out***.println("Enter Wallet Number > > > ");

**this**.walletNumber=sc.nextDouble();

System.***out***.println("Enter Password > > > ");

**this**.walletPassword=sc.next();

}

@Override

**public** **void** pay(**double** amount)

{

System.***out***.println(amount + " Paid using Bitcoin.");

}

}

**//Class**

**package** DesignPattern;

**public** **class** Order

{

**private** **final** PaymentMethod paymentGateway;

**private** **final** **double** amount;

**public** Order(**double** amount , PaymentMethod paymentGateway)

{

**this**.amount=amount;

**this**.paymentGateway=paymentGateway;

}

**public** **void** process()

{

paymentGateway.pay(amount);

}

}

**//Main Class**

**package** DesignPattern;

**import** java.util.Scanner;

**public** **class** DesignPattern

{

**public** **static** **void** main(String[] args)

{

**double** amount=0;

**int** ch;

Scanner sc = **new** Scanner(System.***in***);

Order order;

**do**

{

System.***out***.println("\nPay Using >>> \n1.Credit Card \n2.PayPal \n3.BitCoin \n4.Exit \n> > > ");

ch=sc.nextInt();

**if**(ch==1 || ch==2 || ch==3)

{

System.***out***.println("Enter Amount to Transfer > > > ");

amount=sc.nextDouble();

}

**switch**(ch)

{

**case** 1:

order = **new** Order(amount ,**new** CreditCard());

order.process();

System.***out***.println("Thank You For Shopping !");

**break**;

**case** 2:

order = **new** Order(amount ,**new** PayPal());

order.process();

System.***out***.println("Thank You For Shopping !");

**break**;

**case** 3:

order = **new** Order(amount ,**new** BitCoin());

order.process();

System.***out***.println("Thank You For Shopping !");

**break**;

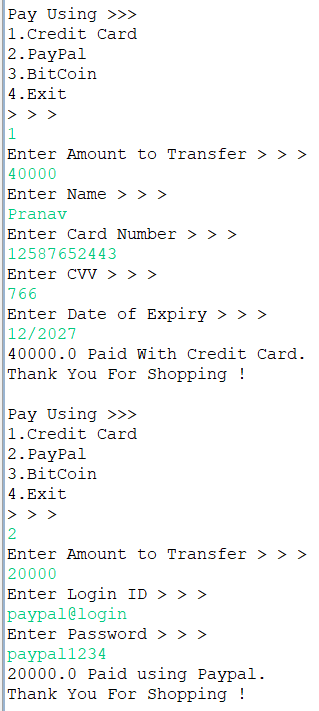
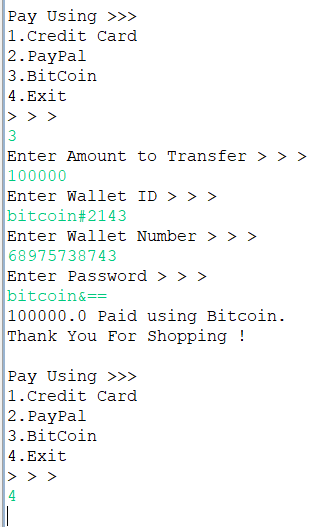
}

}**while**(ch!=4);

}

}

**OUTPUT:**

****