**ADAPTER PATTERN**

CODE

PaymentProcessor.java

public interface PaymentProcessor{

    public void processPayment(int ammount);

}

PhonePeGateway.java

public class PhonePeGateway{

    public void processPayment(int ammount){

        System.out.println("Payment of Rs." + ammount + " processed through PhonePe");

    }

}

GooglePayGateway.java

public class GooglePayGateway{

    public void processPayment(int ammount){

        System.out.println("Payment of Rs." + ammount + " processed through GooglePay");

    }

}

GooglePayAdapter.java

public class GooglePayAdapter implements PaymentProcessor {

    private GooglePayGateway googlePayGateway;

    public GooglePayAdapter(GooglePayGateway googlePayGateway) {

        this.googlePayGateway = googlePayGateway;

    }

    @Override

    public void processPayment(int amount) {

        googlePayGateway.processPayment(amount);

    }

}

PhonePeAdapter.java

public class PhonePeAdapter implements PaymentProcessor {

    private PhonePeGateway phonePeGateway;

    public PhonePeAdapter(PhonePeGateway phonePeGateway) {

        this.phonePeGateway = phonePeGateway;

    }

    @Override

    public void processPayment(int amount){

        phonePeGateway.processPayment(amount);

    }

}

Test.java

public class Test{

    public static void main(String [] args){

        PaymentProcessor processor1 = new GooglePayAdapter(new GooglePayGateway());

        PaymentProcessor processor2 = new PhonePeAdapter(new PhonePeGateway());

        processor1.processPayment(100);

        processor2.processPayment(200);

    }

}

OUTPUT

