**ADAPTERPATTERN EXAMPLE**

**Main.java**

package com.adapter;

public class Main {

    public static void main(String[] args) {

        // Using PayPal through adapter

        PaymentProcessor payPalPayment = new PayPalAdapter(new PayPal());

        payPalPayment.processPayment(500.0);

        // Using Stripe through adapter

        PaymentProcessor stripePayment = new StripeAdapter(new Stripe());

        stripePayment.processPayment(1200.5);

    }

}

**PaymentProcessor.java**

package com.adapter;

public interface PaymentProcessor {

    void processPayment(double amount);

}

**Paypal.java**

package com.adapter;

public class PayPal {

    public void sendPayment(double amount) {

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

    }

}

PayPalAdapter.java

package com.adapter;

public class PayPalAdapter implements PaymentProcessor {

    private PayPal payPal;

    public PayPalAdapter(PayPal payPal) {

        this.payPal = payPal;

    }

    @Override

    public void processPayment(double amount) {

        payPal.sendPayment(amount);

    }

}

**Stripe.java**

package com.adapter;

public class Stripe {

    public void makeStripePayment(double amount) {

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

    }

}

**StripeAdapter.java**

package com.adapter;

public class StripeAdapter implements PaymentProcessor {

    private Stripe stripe;

    public StripeAdapter(Stripe stripe) {

        this.stripe = stripe;

    }

    @Override

    public void processPayment(double amount) {

        stripe.makeStripePayment(amount);

    }

}

