**ADAPTER PATTERN**

interface PaymentProcessor {

void processPayment(double amount);

}

class PayPalGateway {

public void makePayment(double amount) {

System.out.println("PayPal processed payment of $" + amount);

}

}

class StripeGateway {

public void stripeCharge(double amount) {

System.out.println("Stripe charged $" + amount);

}

}

class PayPalAdapter implements PaymentProcessor {

private PayPalGateway payPal;

public PayPalAdapter(PayPalGateway payPal) {

this.payPal = payPal;

}

@Override

public void processPayment(double amount) {

payPal.makePayment(amount);

}

}

class StripeAdapter implements PaymentProcessor {

private StripeGateway stripe;

public StripeAdapter(StripeGateway stripe) {

this.stripe = stripe;

}

@Override

public void processPayment(double amount) {

stripe.stripeCharge(amount);

}

}

public class Main {

public static void main(String[] args) {

PaymentProcessor paypalProcessor = new PayPalAdapter(new PayPalGateway());

paypalProcessor.processPayment(100.0);

PaymentProcessor stripeProcessor = new StripeAdapter(new StripeGateway());

stripeProcessor.processPayment(200.0);

}

}

