**Exercise 8: Implementing the Strategy Pattern**

**Source Code:**

**PaymentStrategy.java**

public interface PaymentStrategy { void pay(double amt); }

**CreditCardPayment.java**

public class CreditCardPayment implements PaymentStrategy {

public void pay(double amt) { System.out.println("Paid $" + amt + " with credit card"); }

}

**PayPalPayment.java**

public class PayPalPayment implements PaymentStrategy {

public void pay(double amt) { System.out.println("Paid $" + amt + " with PayPal"); }

}

**PaymentContext.java**

public class PaymentContext {

private PaymentStrategy strat;

public void setStrategy(PaymentStrategy s) { strat = s; }

public void checkout(double amt) { strat.pay(amt); }

}

**StrategyDemo.java**

public class StrategyDemo {

public static void main(String[] a) {

PaymentContext ctx = new PaymentContext();

ctx.setStrategy(new CreditCardPayment());

ctx.checkout(125.50);

ctx.setStrategy(new PayPalPayment());

ctx.checkout(89.99);

}

}

**Output:**

**A computer screen with white text

AI-generated content may be incorrect.**