## Homework11

## Java code snippet:

```
// Adapter class
public class NewPaymentAdapter implements OldPayment {
    private NewPayment np;
    public NewPaymentAdapter (NewPayment np) {
         this.np = np;
    public void processPayment(double amount) {
         np.charge(amount);
    public void authorizeTransaction(String transactionId) {
         np.confirmAuthorization(transactionId);
    public void refundPayment(String transactionId, double amount) {
         np.issueRefund(transactionId, amount);
}
// Example usage
public class ECommercePlatform {
    public static void main(String[] args) {
         // Create an instance of the new payment gateway
         NewPayment paymentGateway = new NewPaymentGateway();
         // Create an adapter for the payment gateway
          OldPayment paymentAdapter = new NewPaymentAdapter (paymentGateway);
         // Use the adapter to interact with the payment gateway through the old interface
         paymentAdapter.processPayment(100.00);
         paymentAdapter.authorizeTransaction("12345");
         paymentAdapter.refundPayment("12345", 50.00);
}
```

## Class diagram:

