

## Week 3 Lab Questions

### **1. Point to one if/else you avoided in Order by introducing PaymentStrategy**

The Strategy Pattern avoids if-else chains by using polymorphism instead of conditional logic to handle different payment methods. Each payment type becomes a separate strategy class, eliminating the need for lengthy if-else blocks that check payment types within the Order class.

### **2. Show (1–2 sentences) how the same Order can be paid by different strategies in the demo without changing Order code?**

The same Order can be paid by different strategies simply by passing different PaymentStrategy implementations (CashPayment, CardPayment, WalletPayment) to the pay() method. The Order code remains unchanged because it delegates payment processing to the strategy objects through polymorphism.