

Universidad de las Fuerzas Armadas

**CLASS NAME :OBJECT ORIENTED
PROGRAMMING**

TEACHER: EDISON

LASCANO

NRC:14575

Extra point

TOPIC:Exam Inspection

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```
public class OrderManager {  
    private ArrayList<Plate> plates = new ArrayList<>();  
    private double subtotalGeneral = 0.0;  
    private double ivaGeneral = 0.0;  
    private double totalGeneral = 0.0;  
  
    public void addPlate(Plate plate, int quantity) {  
        plate.setQuantity(quantity);  
        plate.setPriceTotal(plate.getPrice() * quantity);  
        plates.add(e: plate);  
    }  
  
    public void calculateTotal() {  
        subtotalGeneral = plates.stream().mapToDouble(Plate::getPriceTotal).sum();  
        ivaGeneral = subtotalGeneral * 0.12;  
        totalGeneral = subtotalGeneral + ivaGeneral;  
    }  
  
    public boolean placeOrder(Customer customer) {  
        ShoppingCart shoppingCart = new ShoppingCart(id: SettingId.establishIdPlate(), plates, (float) subtotalGeneral);  
        Voucher voucher = new Voucher(id: SettingId.establishIdPlate(), customer, shoppingCart, amountTotal: totalGeneral);  
        return VoucherController.createOrder(voucher);  
    }  
  
    public void clearOrder() {  
        plates.clear();  
        subtotalGeneral = 0.0;  
        ivaGeneral = 0.0;  
        totalGeneral = 0.0;  
    }  
}
```