```
class Product:
   def __init__(self, product id, name, stock, reorder_level):
       self.product_id = product_id
       self.name = name
        self.stock = stock
        self.reorder level = reorder level
   def reduce_stock(self, quantity):
       if self.stock >= quantity:
           self.stock -= quantity
           print(f"(quantity) units of '{self.name}' shipped. Stock left: {self.stock}")
           if self.stock <= self.reorder_level:</pre>
                print(f" Reorder alert for '{self.name}' (Stock = {self.stock})")
       else:
           print(f"X Not enough stock for '{self.name}'")
   def restock(self, quantity):
       self.stock += quantity
       print(f"{self.name} restocked. New stock: {self.stock}")
```

```
class SupplyChainManager:
    def __init__(self):
        self.products = {}

    def add_product(self, product):
        self.products[product.product_id] = product

    def process_order(self, product_id, quantity):
        if product_id in self.products:
            product = self.products[product_id]
            product.reduce_stock(quantity)
        else:
            print("X Product not found")
```

```
def restock_product(self, product_id, quantity):
    if product_id in self.products:
        self.products[product_id].restock(quantity)
    else:
        print("X Product not found")

def show_inventory(self):
    print("\n @ Current Inventory:")
    for product in self.products.values():
        print(f" - {product.name}: {product.stock} units")
```

```
# ---- Sample Usage ----
scm = SupplyChainManager()

# Add some products
scm.add_product(Product(1, "Laptop", stock=50, reorder_level=10))
scm.add_product(Product(2, "Mouse", stock=200, reorder_level=50))
scm.add_product(Product(3, "Keyboard", stock=80, reorder_level=20))

# Show inventory
scm.show_inventory()

# Process some orders
scm.process_order(1, 45)
scm.process_order(2, 160)

# Restock a product
scm.restock_product(1, 30)

# Final inventory
scm.show_inventory()
```