

```
class Product:
    def __init__(self, product_id, name, quantity):
        self.product_id = product_id
        self.name = name
        self.quantity = quantity

    def restock(self, amount):
        self.quantity += amount
        print(f"Restocked {self.name}. New quantity: {self.quantity}")

    def ship(self, amount):
        if amount > self.quantity:
            print(f"Not enough stock to ship {amount} units of {self.name}")
        else:
            self.quantity -= amount
            print(f"Shipped {amount} units of {self.name}. Remaining: {self.quantity}")

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

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

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

def get_product(self, product_id):
    return self.products.get(product_id)

def display_inventory(self):
    print("Current Inventory:")
    for p in self.products.values():
        print(f"{p.name} (ID: {p.product_id}) - Quantity: {p.quantity}")
```

Example usage

```
if __name__ == "__main__":
    inv = Inventory()
    prod1 = Product("P001", "Laptop", 50)
    prod2 = Product("P002", "Monitor", 30)

    inv.add_product(prod1)
    inv.add_product(prod2)

    inv.display_inventory()

    prod1.ship(5)
    prod2.restock(10)

    inv.display_inventory()
```