inventory = {}

while True:

print("\n1. Add item\n2. Update item\n3. Remove item\n4. Display inventory\n5. Exit")

choice = input("Enter your choice (1/2/3/4/5): ")

if choice == "1":

item\_name = input("Enter item name: ")

quantity = int(input("Enter quantity: "))

if item\_name in inventory:

inventory[item\_name] += quantity

else:

inventory[item\_name] = quantity

print(f"{quantity} {item\_name}(s) added to inventory.")

elif choice == "2":

item\_name = input("Enter item name to update: ")

if item\_name in inventory:

new\_quantity = int(input(f"Enter new quantity of {item\_name}(s): "))

inventory[item\_name] = new\_quantity

print(f"{item\_name} quantity updated to {new\_quantity}.")

else:

print(f"{item\_name} not found in inventory. Use option 1 to add a new item.")

elif choice == "3":

item\_name = input("Enter item name to remove: ")

if item\_name in inventory:

quantity = int(input(f"Enter quantity of {item\_name}(s) to remove: "))

if inventory[item\_name] >= quantity:

inventory[item\_name] -= quantity

if inventory[item\_name] == 0:

del inventory[item\_name]

print(f"{quantity} {item\_name}(s) removed from inventory.")

else:

print(f"Not enough {item\_name} in inventory.")

else:

print(f"{item\_name} not found in inventory.")

elif choice == "4":

print("\nCurrent Inventory:")

for item, quantity in inventory.items():

print(f"{item}: {quantity}")

elif choice == "5":

print("Exiting the inventory management system. Goodbye!")

break

else:

print("Invalid choice. Please enter a valid option.")