

Untitled-1

```
1 import java.io.*;
2 import java.util.*;
3
4 public class InventoryManager {
5     private static final String FILE_NAME = "inventory.txt";
6     private static Map<String, Integer> inventory = new HashMap<>();
7
8     public static void main(String[] args) {
9         loadInventory();
10        Scanner scanner = new Scanner(System.in);
11        String command;
12
13        while (true) {
14            System.out.println("\nInventory Management System");
15            System.out.println("1. Add Item");
16            System.out.println("2. View Inventory");
17            System.out.println("3. Update Item");
18            System.out.println("4. Remove Item");
19            System.out.println("5. Exit");
20            System.out.print("Enter command: ");
21            command = scanner.nextLine();
22
23            switch (command) {
24                case "1":
25                    addItem(scanner);
26                    break;
27                case "2":
28                    viewInventory();
29                    break;
30                case "3":
31                    updateItem(scanner);
32                    break;
33                case "4":
34                    removeItem(scanner);
35                    break;
36                case "5":
37                    saveInventory();
38                    System.out.println("Exiting...");
39                    scanner.close();
40                    return;
41                default:
42                    System.out.println("Invalid command. Please try again.");
43            }
44        }
45    }
46
47    private static void addItem(Scanner scanner) {
48        System.out.print("Enter item name: ");
```

```
49     String name = scanner.nextLine();
50     System.out.print("Enter item quantity: ");
51     int quantity = Integer.parseInt(scanner.nextLine());
52
53     if (inventory.containsKey(name)) {
54         System.out.println("Item already exists. Updating quantity.");
55         inventory.put(name, inventory.get(name) + quantity);
56     } else {
57         inventory.put(name, quantity);
58     }
59 }
60
61 private static void viewInventory() {
62     System.out.println("\nCurrent Inventory:");
63     for (Map.Entry<String, Integer> entry : inventory.entrySet()) {
64         System.out.println("Item: " + entry.getKey() + ", Quantity: " + entry.getValue());
65     }
66 }
67
68 private static void updateItem(Scanner scanner) {
69     System.out.print("Enter item name to update: ");
70     String name = scanner.nextLine();
71     if (inventory.containsKey(name)) {
72         System.out.print("Enter new quantity: ");
73         int quantity = Integer.parseInt(scanner.nextLine());
74         inventory.put(name, quantity);
75         System.out.println("Item updated successfully.");
76     } else {
77         System.out.println("Item not found.");
78     }
79 }
80
81 private static void removeItem(Scanner scanner) {
82     System.out.print("Enter item name to remove: ");
83     String name = scanner.nextLine();
84     if (inventory.containsKey(name)) {
85         inventory.remove(name);
86         System.out.println("Item removed successfully.");
87     } else {
88         System.out.println("Item not found.");
89     }
90 }
91
92 private static void loadInventory() {
93     try (BufferedReader reader = new BufferedReader(new FileReader(FILE_NAME))) {
94         String line;
95         while ((line = reader.readLine()) != null) {
96             String[] parts = line.split(",");
97             if (parts.length == 2) {
98                 String name = parts[0];
```

```
99         int quantity = Integer.parseInt(parts[1]);
100         inventory.put(name, quantity);
101     }
102 }
103 } catch (IOException e) {
104     System.out.println("No existing inventory file found. Starting fresh.");
105 }
106 }
107
108 private static void saveInventory() {
109     try (BufferedWriter writer = new BufferedWriter(new FileWriter(FILE_NAME))) {
110         for (Map.Entry<String, Integer> entry : inventory.entrySet()) {
111             writer.write(entry.getKey() + "," + entry.getValue());
112             writer.newLine();
113         }
114     } catch (IOException e) {
115         System.out.println("Error saving inventory.");
116     }
117 }
118 }
119 }
```