IT1214 - Practical Sheet   **29.05.2025**

Develop a Java console-based program to manage Items and Customers:

The interface of the program should be:

```
------ Inventory Management ------
1. Add Item
2. Remove Item
3. Update Item Quantity
4. List All Items
5. Add Customer
6. List All Customers
7. Search Item by Name
0. Exit
------------------------------
Enter your choice:
```

- Class Item:

  Should have the following fields:
  - description
  - name
  - unitPrice
  - quantityAvailable

  Should include the following methods:
  - updateQuantity(int amount): Logic to increase or decrease quantity (you can define your own rules).
  - printDetails(): Display the details of the item.
  - Other methods as needed (e.g., getters, setters, or helper methods).

- Class Customer:

  Should have the following fields:
  - name
  - contactDetails

  Should have necessary methods to access the class variables

- Class Database:

  Should maintain collections of Item and Customer objects (use ArrayList<Item> and ArrayList<Customer>).

  Should provide methods to:
  - Items:
    - addItem(Item item)
    - removeItem(String itemName or ID)
    - searchItem(String name)
    - updateItemQuantity(String itemName, int amount)
  - Customers:
    - addCustomer(Customer customer)
    - removeCustomer(String name)
    - listCustomers()
    - searchCustomerByName(String name)