1. Create a separate class as Book with properties as

**-Bookname, ISBN number, Author**

Create a class InMemoryData as a Singleton class

-Add an instance variable which stores Book information in form of Collection

-Should initialize this variable in private constructor of InMemoryData class

**-ex: ArrayList<Book> bookDb;**

-Create various methods to operate on in-memory database like

**-public ArrayList<Book> getAllBookInfo()**

**-public boolean addBookInfo(Book book)**

**-public boolean addMultipleBookInfo(ArrayList<Book> bookList)**

**-public Book getBookInfoOnBookname(String bookname)**

**-public boolean deleteBookInfoOnBookname(String bookname)**

**-public boolean updateBookInfoOnBookname(Book book)**

**-public ArrayList<Book> getBookInfoFilterOnName()**

**--Get in ascending order/descending**

**Add multiple entries for Book and represent as an in-memory database.**

1. Create a custom Exception which is thrown when a password contains special characters like "**.-\_=+%**".

- **class SpecialCharacterNotAllowedException extends Exception{}**

-Create a class to validate the given string for password and username and return error message depending on the exception.

-Even validate null and empty check for the string.