Lab Task - 5

Write the following classes:

Book
int bookId String bookTitle String authorName int numberOfCopies
Book( ) Book(int bookId, String bookTitle, String authorName, int numberOfCopies) void setBookId(int bookId) void setBookTitle(String bookTitle) void setAuthorName(String authorName) void setNumberOfCopies(int numberOfCopies) int getBookId ( ) String getBookTitle( ) String getAuthorName( ) int getNumberOfCopies( )

Library
String libraryName Book [ ]books
Library( ) Library(String libraryName, int sizeOfArray) void setLibraryName (String libraryName) String getBankName( ) void addBook(Book b) void removeBook(Book b)

Write a class **Start** that contains the main method. Inside the main method do the followings:
- Create **one** object (l1) of the *Library* class by using its parameterized constructor.
- Create **four** objects (b1, b2, b3, b4) of the *Book* class by using its parameterized constructor.
- Add **b1, b2** and **b3** in the books[ ] array.
- Display the libraryName. Also, display the details of all the books in the books[ ] array by using a loop.
- Remove the book b1 from the array and then add the book b4.
- Display the details of all the books in the books[ ] array by using a loop.

[Hints: First write the Book Class, then the Library class and at the end write the Start Class. The addBook( ) and removeBook( ) methods inserts and removes a book from the books array respectively.]

Lab Task Submission Guidelines:

1. Keep all the .java files in a folder.
2. Zip the folder.
3. Rename the folder according to your Id. For example: if your id is 12-21219-2, your folder name MUST be 12-21219-2_LT_5.
4. Upload the zipped folder.
5. Submission deadline is "When your theory class starts".