**Workshop 4**

Borrowing books from library

Class **Book** includes code, title, author, field book, published year, numbers. The field book is natural Sciences, literary arts, Electronics and Telecommunication, computer science. A Code book is a number with 5 digits and auto increasing.

Class **Reader** includes code, fullname, address, phone. A code of Reader is a number with 5 digits and auto increasing.

Calss **Borrowing book management,** a reader may not be allowed to borrow greater than 5 different books and up to 3 books for each kind of a book. Note status for each book.

Write a program using Jframe with the following functions:

1. Design the form includes a table, 2 button (Add and Edit) and some components for add and edit. Add and Edit data of Book and save into BOOK.DAT file. (display all books in the table)
2. Design the form includes a table, 2 button (Add and Delete) and some components for add and Delete. Add and Delete data of Reader and save into READER.DAT file. (display all readers in the table)
3. Input data in Borrowing book management into BBM.DAT file. Note each Reader and each book will be only appeared once in the Borrowing book management table.
4. Sorting In the Borrowing book management table (in BBM.DAT file) (using JradioButton)

* Fullname of Reader
* The number of borrowed books (descending)

1. Sum of books for each kind of book in the Borrowing book management table (in BBM.DAT file)

4-5 points: select 1 or 2

6-7 points: do 1+2 and sorting by fullname of reader () (READER.DAT) or author of book (BOOK.DAT)

8-10 points: do all of 5 quesions