

## **OOP Lab Final Assignment**

**Submission deadline : 11:55 pm, Sunday, October 11**

### **Question 1**

Create a GUI application “Address Book” which can be used to store and search the information of different people. The information can be: name, phone no, email, street address etc. Your project should have the following features:

1. A GUI where user can **input** the information of a particular person
2. A **file** where all information is stored. (You will have to **append** new info to the file. Otherwise the previous information will be lost).
3. A GUI in which the user will be able to see **the information of everyone**. The information must come from the **file** where you stored user information. (Hint: use JTextArea to show all user info)
4. A GUI where the user will be able to **search** a person using his name. The search result should show the info of all the matched person

### **Question 2**

Suppose you want to create a login system for an application. Users can register in your system by providing name, email and password. Also, user can login by providing correct email and password.

1. Create the GUI for registering users. The GUI should contain fields for **input** name, email and password.
2. The login data of all the users should be stored in a file.  
Provide a register button in the registration GUI. Clicking the register button will **append** the data **entered in the GUI input fields** to a file.
3. Create the GUI for log-in. (The GUI should contain mechanisms to input login information and show result)
4. If a user provides correct email and password (**stored in the file**), show “Login Successful”, else show “Login Unsuccessful”

[For appending to an existing file, create the FileWriter as follows: **new FileWriter(file, true).**]

<p><b>Plagiarism will result in 20% reduction in your class performance marks as well as a 0 in final assignment</b></p>
--