



UNIVERSITY OF MINES AND TECHNOLOGY, TARKWA
SECOND SEMESTER EXAMINATIONS, MAY 2019

COURSE NO: CE 274
COURSE NAME: PROGRAMMING WITH JAVA (PRACTICAL)
CLASS: CE II **TIME:** 2HRS

Name: _____ Index Number: _____

Attempt ALL Questions

Design the user interface program which when run: **[20 marks]**

1. Starts with a *User Login* (Figure 1 (a) with the following messages when the user tries to login
 - a. Successful login Figure 1 (b)
 - b. Unsuccessful login Figure 1 (c)

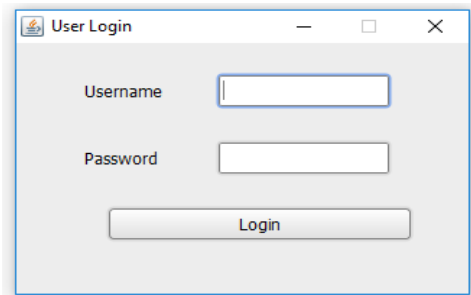


Figure 1(a) User Login Interface

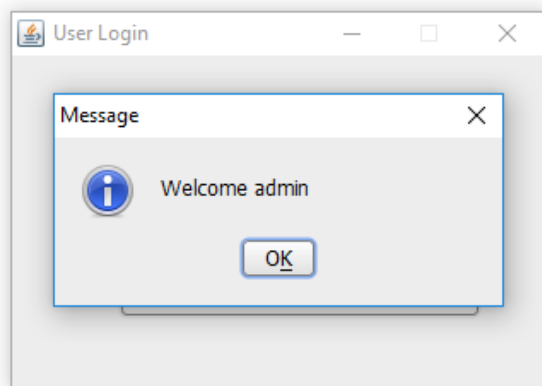


Figure 1(b) Successful User Login

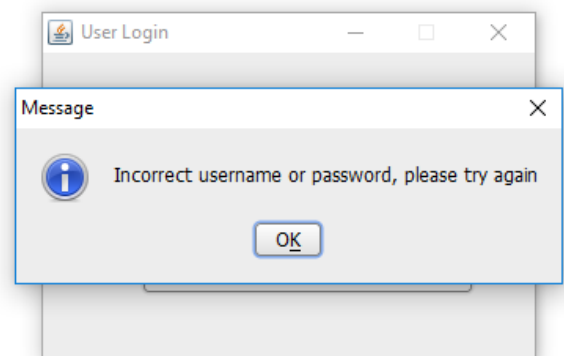


Figure 1(c) Unsuccessful User Login

2. A successful login hides the *User Login* interface and the interface in Figure 2 (a) appears where:
 - a. The user can perform simple mathematical operations and display the results

- b. The user can save contact details of friends to text files – using the *Save Details* button
- c. The user can read content from any text file – using the *Open Text File* button

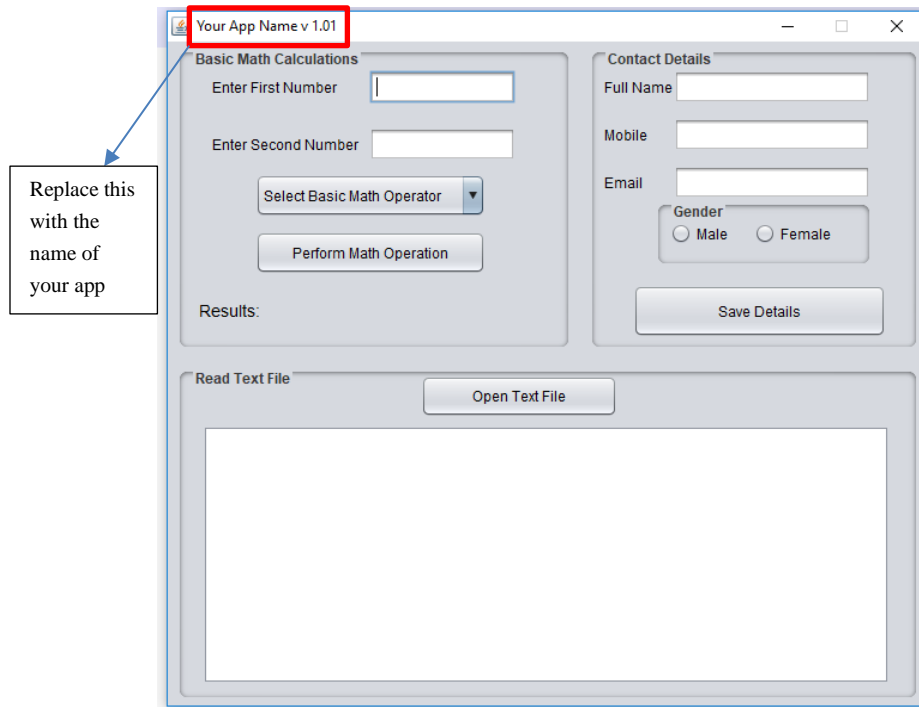


Figure 2(a) Simple App Details Interface

The below Illustrations below show the expectations from your application

➤ **Basic Math Calculations**

- i. User enters the first and second numbers – **note** only doubles should be accepted (no strings allowed).
- ii. User selects the desired math operator before clicking on *Perform Math Operation* button.
- iii. The results depending on the selected math operator should be displayed as shown in Figure 2 (b).

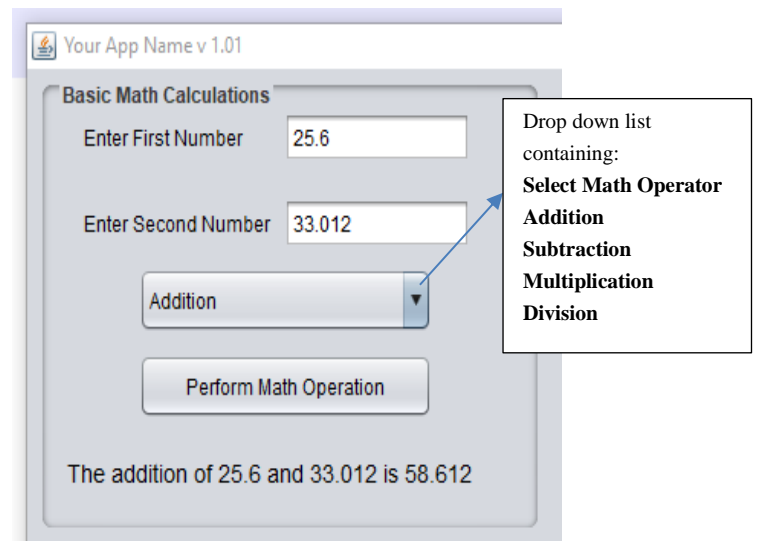


Figure 2 (b) Simple Math Calculations

➤ **Contact Details**

- i. User should enter the full name and other details of the contact.
- ii. User selects the gender of contact.
- iii. The *Save Details* button should show the save dialog box allowing user to select a text file to save contact details as shown in Figure 2 (c).

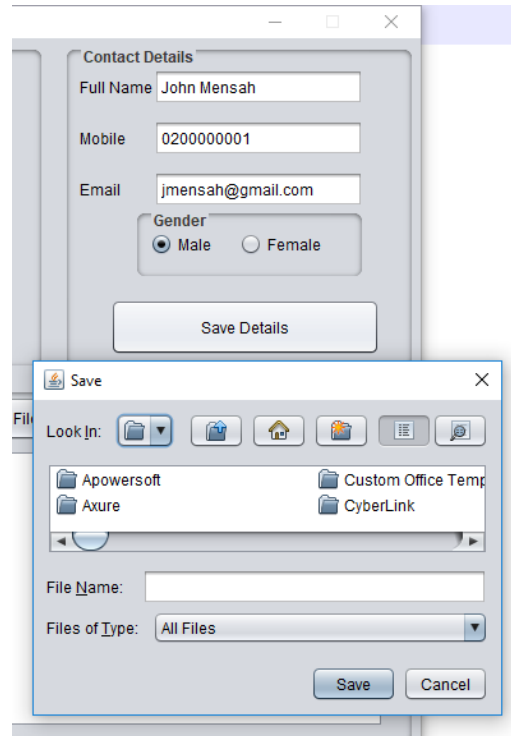


Figure 2 (c) Save Details to Text File

➤ **Read Text File**

- i. The *Open Text File* button should show the open dialog box.
- ii. User selects desired text file to open.
- iii. Content of text file should be displayed in the text area after user clicks on *Open* as shown in Figure 2 (d).

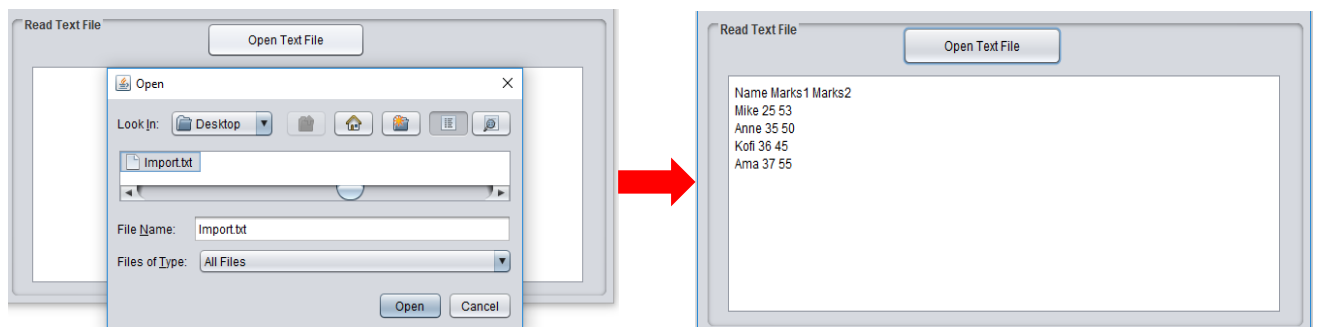


Figure 2 (d) Open Text File Illustration