



EASTERN UNIVERSITY, SRI LANKA
DEPARTMENT OF MATHEMATICS
SECOND YEAR EXAMINATION IN SCIENCE - 2012/2013
FIRST SEMESTER (Mar./Apr., 2016)
OC 252 – PRACTICAL WORK ON OC 207
(PROPER & REPEAT)

Answer all questions

Time allowed: 02 hours

Design a *Phone Book System* using Visual programming language and Microsoft office Access which can contain the personal details.
For that, first create a database with the name of “db_final.accdb” and connect to your project application.

Implement the given task by considering the following features.

a. The Login Form contains the User ID and Password:

- Create a login form as shown in the *Figure 1.1* and set the User Id and Password as “Admin” and “123456”, respectively.
(Use the given *Figure 1.2* for the creation of login form interface)
- If the User Id or Password is incorrect, alert the user to enter correct one by highlighting the relevant TextBox.

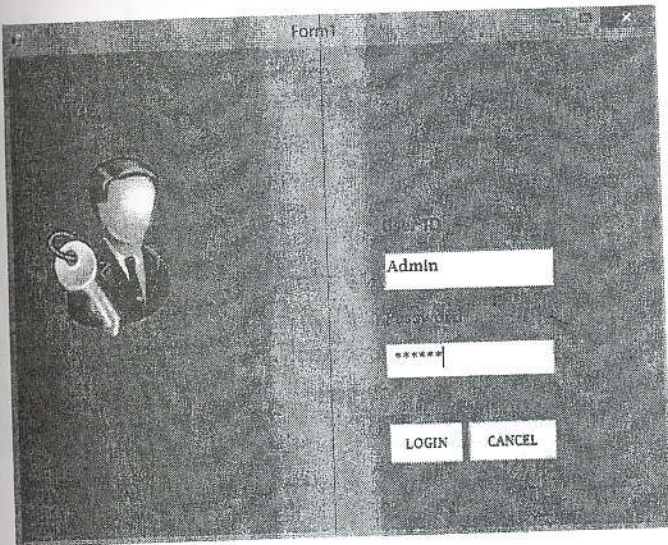


Figure 1.1

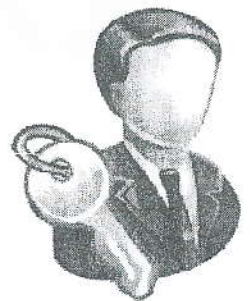


Figure 1.2

b. The Detailed Form contains several tabs.

After clicking LOGIN button, it should navigate to another form which is having 3 tabs as **My Phone Book**, **Calendar**, and **Profile details**.

i. The first tab **My Phone Book** contains the details of personal profile:

- Create an interface as shown in the *Figure 1.3*.
(Use the given *Figure 1.4* for the creation of My Phone Book tab interface)
- If you click UPDATE button, it should save all entered data into the appropriate fields in the database **db_final.accdb**.
- If you click NEW button, it should display new blank fields to enter new person.
- If you click DELETE button, it should delete all details of a person in the database **db_final.accdb**.
- If you click << button, it should show the details of the previous person in the database.
- If you click >> button, it should show the details of the next person in the database.
- If you click CLOSE button, it should close the form.

The screenshot shows a Windows application window titled "Form2". At the top, there are three tabs: "My Phone Book", "Calendar", and "Profile details". The "My Phone Book" tab is selected. The main content area is titled "Personal Profile". On the left, there is a placeholder image of a person's head and shoulders. To the right of the image are several input fields: "First Name :", "Last Name :", "Phone Number :", "Work", "Mobile", "Home", "Home Address :", and "E-mail Address :". Below the image are two navigation buttons: "<<" and ">>". At the bottom of the form are four action buttons: "UPDATE", "NEW", "DELETE", and "CLOSE".

Figure 1.3

The second tab **Calendar** contains the details of reminders:

- Create an interface as shown in the *Figure 1.5*.
- First you select the date of birth from the calendar. After the selection of date of birth if you click the SELECT button, it should display in the relevant textbox.
- If you click the UPDATE button, date of birth should update to the database which you already created.

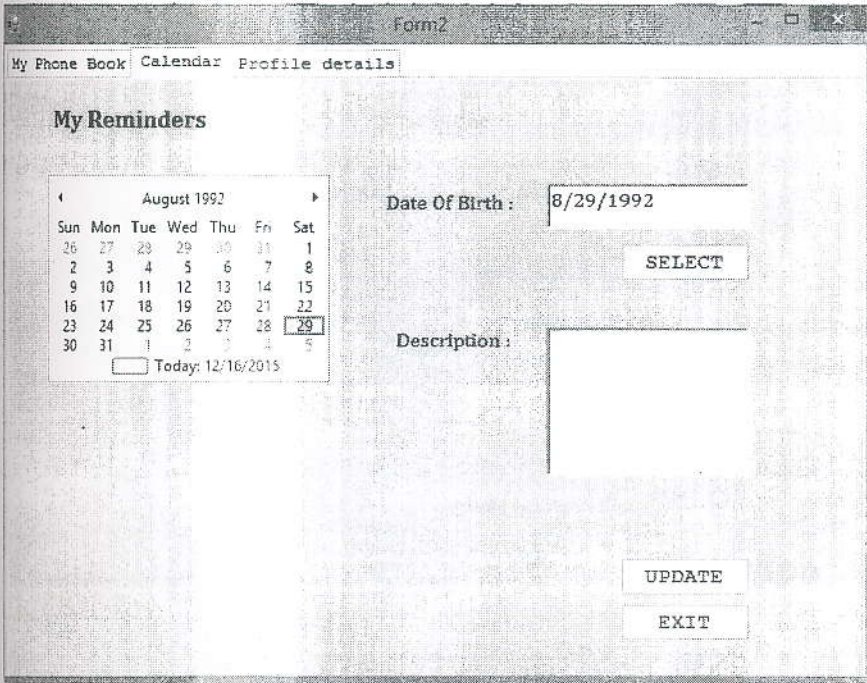


Figure 1.5

The third tab **Profile Details** contains the details of database table:

- Display the all details of the table in the database as shown in the *Figure 1.6*.

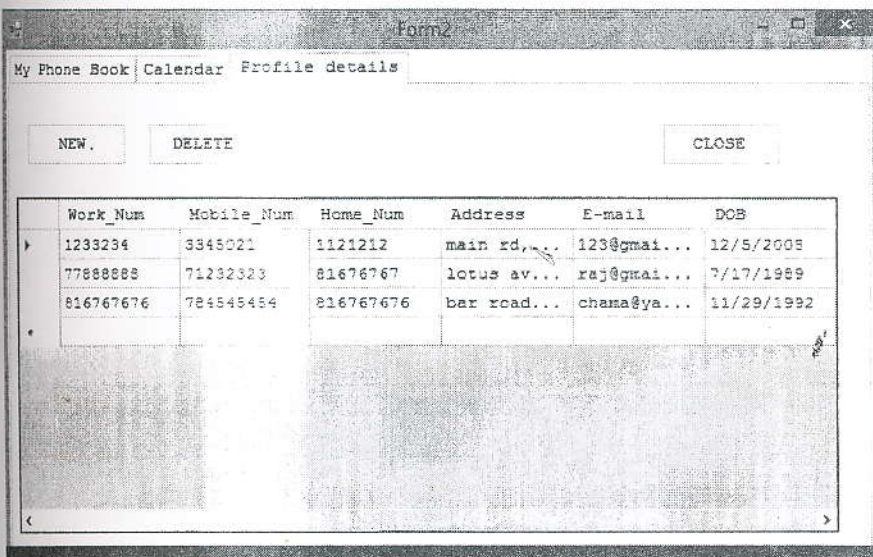
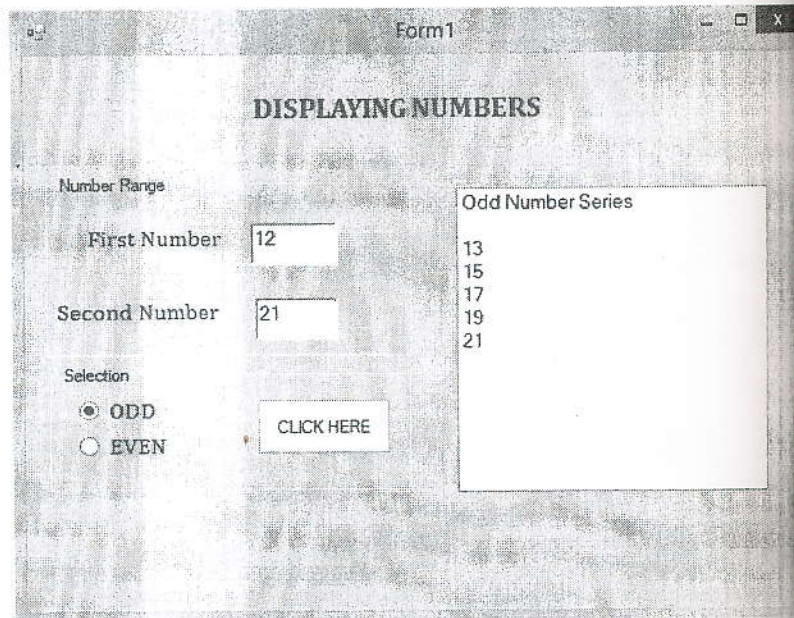


Figure 1.6

[70 Marks]

02. Design an interface as shown in the *Figure 2.1*. Then implement the application to numbers, and, from the button click, list the series of odd numbers or even numbers the ranges what you have given.
- If you select ODD option your application should display odd numbers between the given range.
 - If you select EVEN option your application should display even numbers between the given range.



The screenshot shows a Java Swing window titled "Form1" with the following components:

- Title:** DISPLAYING NUMBERS
- Number Range:**
 - First Number: 12
 - Second Number: 21
- Selection:**
 - ODD
 - EVEN
- Action:** A button labeled "CLICK HERE".
- Output:** A text area titled "Odd Number Series" containing the numbers 13, 15, 17, 19, and 21.

Figure 2.1