

(Part II) Lab-session 9

- 1) Design a Customized User Form entitled "*Task1*". The Form should contain a Label which says "*Sex*" and two Option Buttons which allow to choose between "*male*" and "*female*". Modify the User Form code in such a way that it writes "M" into the cell "C6" when "*male*" is selected and "F" when "*female*" is selected. Design the Form in such a way that the code runs when the User Form is clicked once.

- 2) Design a Customized User Form entitled "*Task2*". The Form should contain a Frame entitled "*Sex*" with two Option Buttons which allow to choose between "*male*" and "*female*". Modify the User Form code in such a way that it writes "M" into the cell "C7" when "*male*" is selected and "F" when "*female*" is selected. Add to the User Form a CheckBox with text "*married*". When the CheckBox is selected write "*married*" into the cell "D7" otherwise "*not married*". Design the Form in such a way that the code runs when the User Form is clicked once.

- 3) Design a Customized User Form entitled "*Personal Data*", which serves as an input form to the worksheet. On the worksheet write "*Name*" into the cell "A1", "*Date of Birth*" into the cell "B1", "*Sex*" into the cell "C1" and "*Marital Status*" into the cell "D1". The Form should contain a Label which says "*Name*" and a TextBox next to it into which a name can be typed. Inside the Properties Window change the ControlSource to A2. In addition, the User Form should contain a Label which says "*Date of Birth*" and a TextBox next to it into which the date of birth can be entered. Inside the Properties Window change the ControlSource to B2. The remaining part of the User Form should be identical to the one of task 2, with the difference that the output is now related to the cells C2 and D2. The worksheet should look as follows:

| | A | B | C | D |
|---|--------------|----------------------|----------------------|-----------------------|
| 1 | Name | Date of Birth | Sex | Marital Status |
| 2 | TextBox link | TextBox link | depends on OptionBox | depends on CheckBox |
| 3 | | | | |

- 4) Use the result from task3 and change the SourceControls of the TextBoxes to blank. Modify the User Form code as given below, then the new form can be used as a data entry form, filling up one row after the other (up to 20). The CountA function (not discussed in the lecture) counts the number of nonblank cells for a given range and returns its value. This means in the program below NextRow is the next blank row to be filled. Try to run this form and fill in the worksheet with some date.

Turn over to see the code.

```
Private Sub UserForm_Click()  
    NextRow = Application.WorksheetFunction.CountA(Range("A1:A20")) + 1  
    Cells(NextRow, 1) = TB1.Text  
    Cells(NextRow, 2) = TB2.Text  
    If O1.Value Then  
        Cells(NextRow, 3) = "M"  
    ElseIf O2.Value Then  
        Cells(NextRow, 3) = "F"  
    End If  
    If CB.Value Then  
        Cells(NextRow, 4) = "married"  
    Else  
        Cells(NextRow, 4) = "not married"  
    End If  
End Sub
```