

Class: MSc

Subject : Application of IT- Basics and Advance Excel

Chapter: Unit 4 Chapter 4

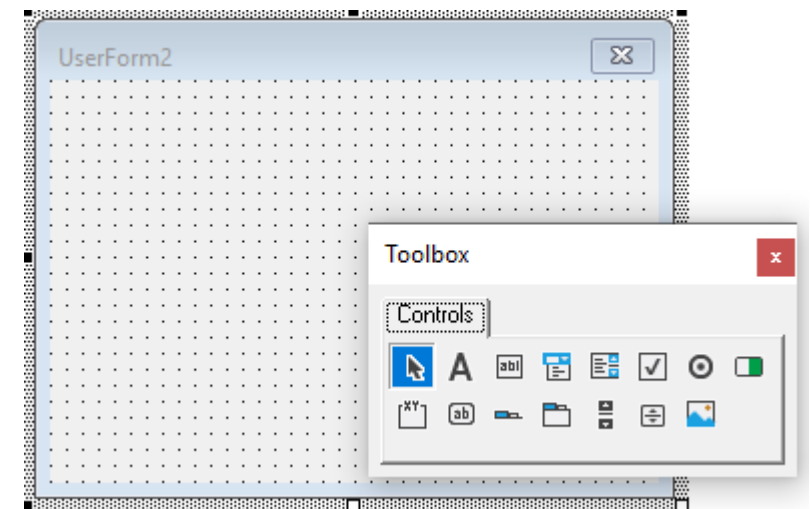
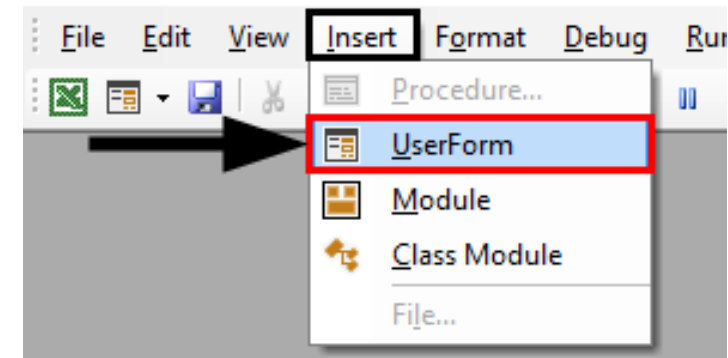
Chapter Name: Userforms

UserForm

- *In Excel VBA, we have a very useful tool which is known as UserForm. It is a practical way of getting information from a user.*
- *UserForm is like a wizard box or a dialog box in which we ask users to input data, and it has some instructions on it.*
- *Userforms are used to store data in excel. It can be compared to google forms, where we have a specific set of instructions and ask the user to input data as per the instructions.*
- *UserForm is widely used everywhere. In UserForm, the data entered by the user gets stored in the corresponding column. It is the most practical way in excel to take input from the user and store the data in excel relatively in the correct location.*

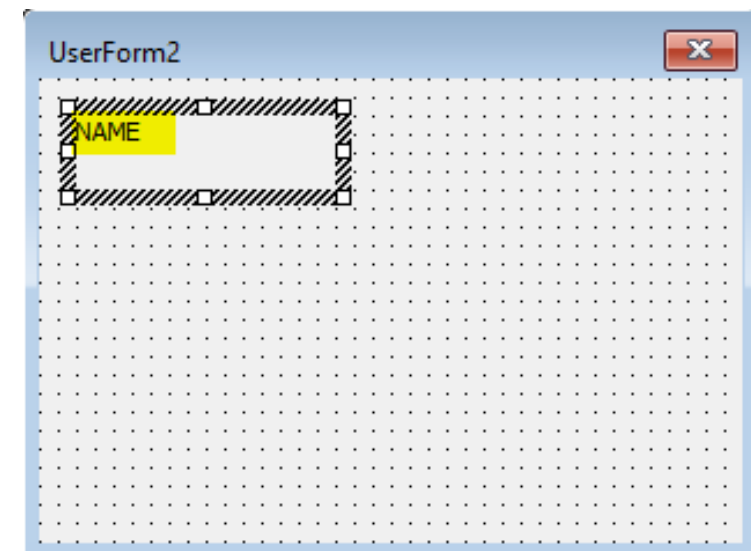
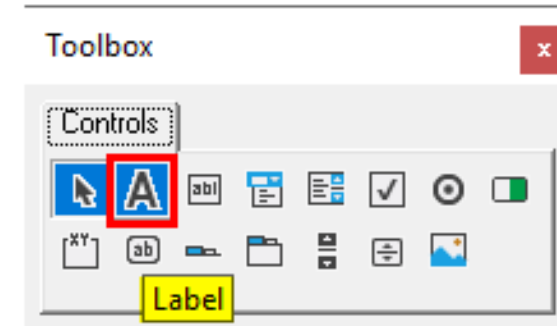
How to Create UserForm in Excel VBA?

- In the Excel worksheet, go to the developer's tab and click on the visual basic editor.
- Now in the insert tab, click on userform to open a userform window.
- We need to add buttons to this userform in order to get input from the user. We can see that a toolbox is also opened beside our userform, which has the control buttons.
- This toolbox has various controls in it, which is used in UserForms.



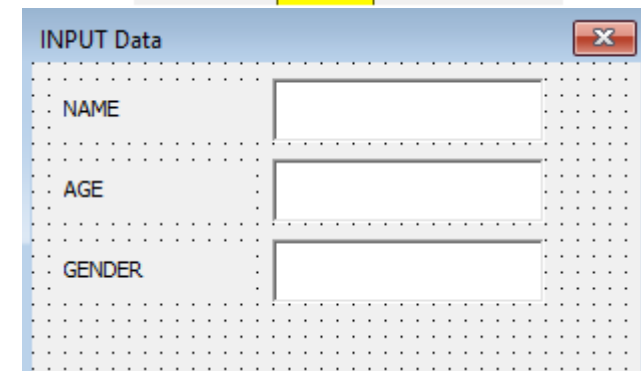
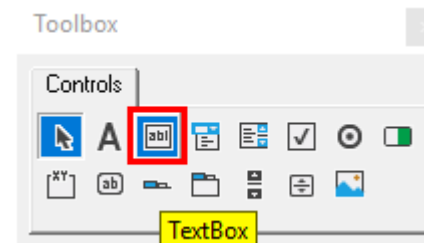
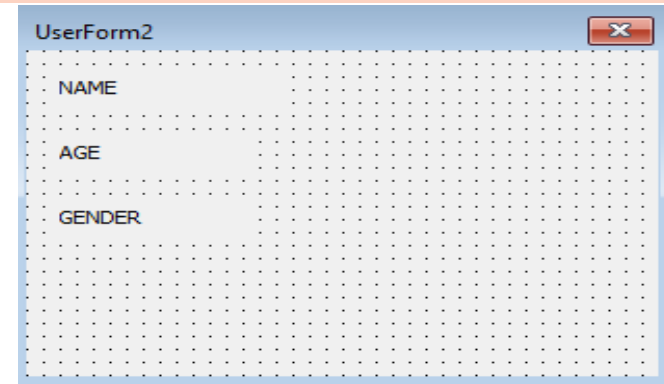
How to Create UserForm in Excel VBA?

1. So for our example, we need a name, age, and gender to be input by the user. We Basically need three labels which will represent our instructions. Click on Labels.
2. Hover the mouse on userform and click and drag to insert a label in the userform.
3. Currently, it is named as label 1; we need to change the label name to "Name" for the instruction to the user. Click on the label and delete the default name provided and insert the new name.



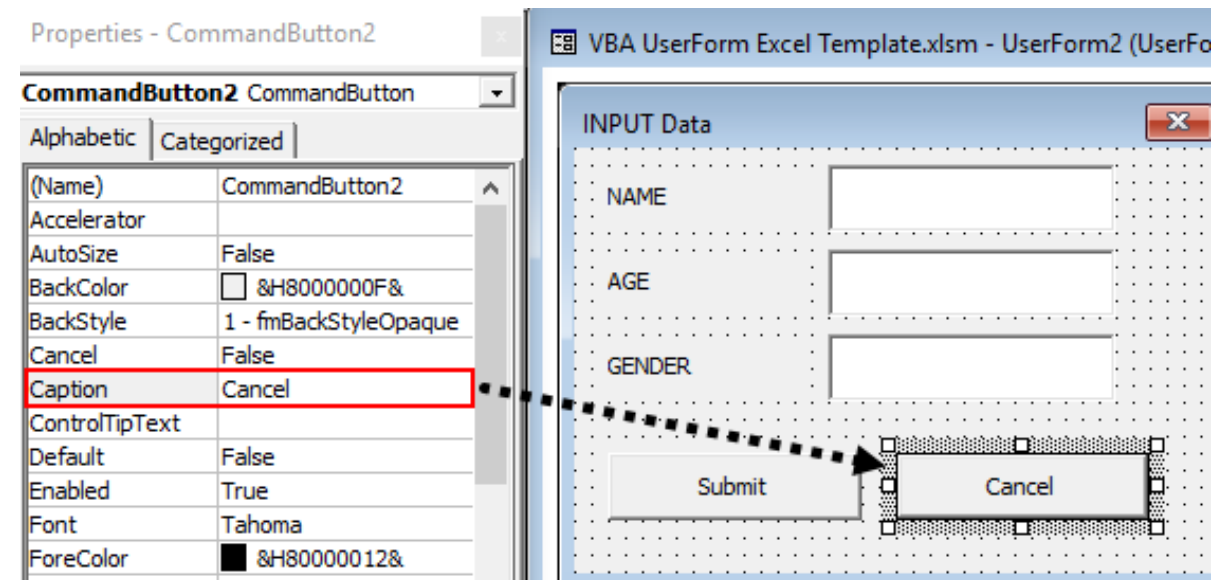
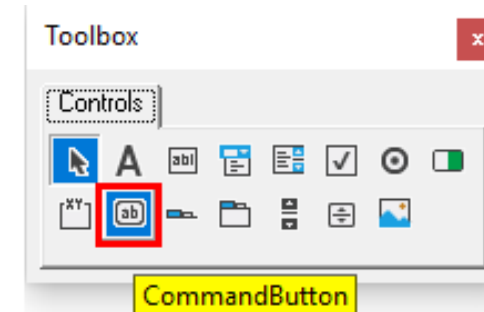
How to Create UserForm in Excel VBA?

4. *Now insert the label for Age and Gender in a similar way and rename them.*
5. *Now adjacent to the labels, we need to insert a text box so that the user can input values. From the toolbox controls, click on TextBox.*
6. *Hover the mouse adjacent to the labels and click on the form.*



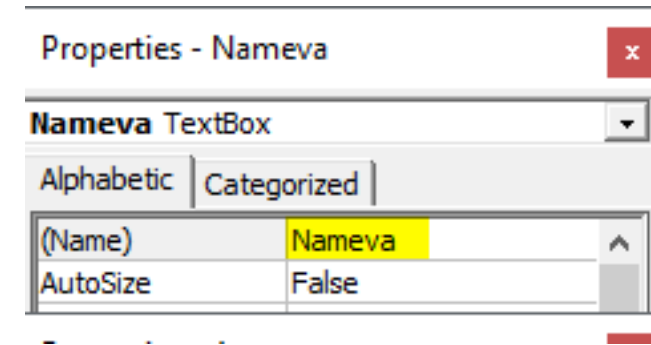
How to Create UserForm in Excel VBA?

7. Now let us insert the command button in the userform, which will store the data for us. From the toolbox controls, click on CommandButton.
8. Hover the mouse on the form.
9. Change the caption of CommandButton1 to "Submit".
10. Insert one CommandButton and call it as "Cancel".



How to Create UserForm in Excel VBA?

11. *The next step is to rename each of the Textboxes so that we can easily use them in our codes; for name rename the textbox against it as Nameva for name value and for age as Ageva similarly for gender as Genderva for gender value.*
12. *Run the UserForm by clicking on the play button or by pressing the F5 key.*
13. *In the Excel Sheet, write the header for the data.*

A screenshot of the 'INPUT Data' UserForm. The form has three text input fields labeled 'NAME', 'AGE', and 'GENDER'. At the bottom, there are two buttons: 'Submit' and 'Cancel'.

Recording a Macro

14. Double click on the submit button, which will open the code window for us for the submit button as follows.
15. In the code window, Declare a variable as long as shown below.
16. Let us store the value provided by the user in the worksheet by the following code.
17. Now double click on the Cancel button and add the given code.

CommandButton1

```
Private Sub CommandButton1_Click()  
  
End Sub
```

CommandButton1

```
Private Sub CommandButton1_Click()  
  
Dim A As Long  
A = Cells(Rows.Count, 1).End(xlUp).Row + 1  
Cells(A, 1).Value = Nameva.Value  
Cells(A, 2).Value = Ageva.Value  
Cells(A, 3).Value = Genderva.Value  
Nameva.Value = ""  
Ageva.Value = ""  
Genderva.Value = ""  
  
End Sub
```

CommandButton2

```
Private Sub CommandButton2_Click()  
  
UserForm1.Hide  
  
End Sub
```

Result

	A	B	C	D	E
1	Name	Age	Gender		
2	Anand	25	Male		
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

INPUT Data

NAME

AGE

GENDER

Submit

Cancel

Things to Remember

- *Userforms are inbuilt or can be created by the developer in VBA.*
- *The properties of userform can be changed from the properties wizard box in VBA.*
- *Userforms need to have buttons in order to fetch data from the user.*
- *To run a userform, make sure that the userform is selected.*