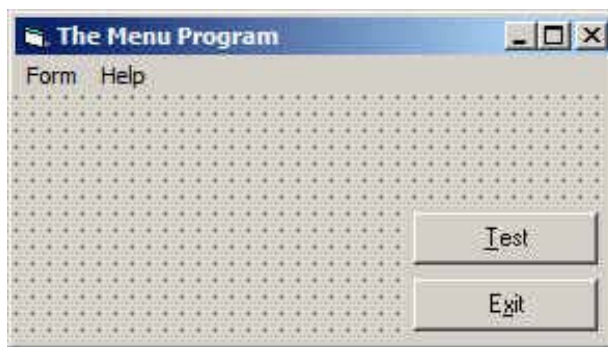


Name: _____

Visual Basic Programming Tutorial: The Menu Program

You will develop an application that will display a screen like the one at the right.



Instructions:

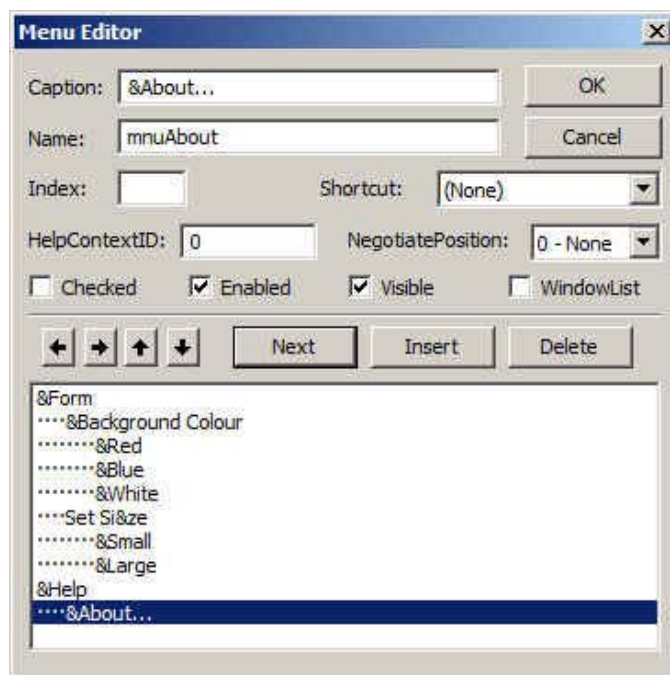
1. Start Visual Basic 6.
2. Open a new project, save the form of the project as MENU.FRM and save the make file as MENU.VBP.
3. Build the form (name it!) in accordance with the above diagram and the following table.

Object	Property	Setting
Form	Name	frmMenu
	AutoRedraw	True
	Caption	The Menu Program
Command Button	Name	cmdExit
	Caption	E&xit
Command Button	Name	cmdTest
	Caption	&Test

9. Complete the menu using the following Menu Table as a reference.

Caption	Name
&Form	mnuForm
...&Background Colour	mnuSetColour
.....&Red	mnuRed
.....&Blue	mnuBlue
.....&White	mnuWhite
...Set Si&ze	mnuSetSize
.....&Small	mnuSmall
.....&Large	mnuLarge
&Help	mnuHelp
...&About	mnuAbout

10. Your Menu Editor should look similar to the one shown below:



4. Enter the code for the Exit button.
5. Enter the following code for the Test button.

```
Private Sub cmdTest_Click()  
    frmMenu.Print "Menu"  
End Sub
```
6. Select **Menu Editor...** from the **Tools** menu.
7. In the Caption text box of the Menu Editor Window, type **&Form**. In the Name text box of the Menu Design Window type **mnuForm**.
8. Click the Next button. In the Caption text box type **&Background Colour**. In the Name text box type **mnuSetColour**. Click the right arrow button. By clicking the right arrow button Set Colour becomes a submenu of Colours.

11. Enter the following code in the Form_Load() event procedure.

```
Private Sub Form_Load()  
    frmMenu.BackColor = QBColor(15)  
    mnuWhite.Enabled = False  
    mnuSmall.Enabled = False  
End Sub
```

12. Run and test your application. Save it when you have debugged it.

13. Enter the following code in the mnuAbout_Click() event procedure.

```
Private Sub mnuAbout_Click()  
    Dim Msg As String  
    Msg = "Copyright 2015 K. Conan"  
    MsgBox Msg, vbInformation, "About"  
End Sub
```

14. Run and test your application.

15. Enter the following code inside the mnuRed_Click() event procedure.

```
Private Sub mnuRed_Click()  
    frmMenu.BackColor = QBColor(4)  
    mnuRed.Enabled = False  
    mnuBlue.Enabled = True  
    mnuWhite.Enabled = True  
End Sub
```

16. Write similar code segments for the mnuBlue_Click() and mnuWhite_Click() event procedures. Blue is 1 and white is 15.

17. Enter the following code inside the mnuSmall_Click() event procedure.

```
Private Sub mnuSmall_Click()  
    frmMenu.WindowState = 0  
    mnuSmall.Enabled = False  
    mnuLarge.Enabled = True  
End Sub
```

18. Write a similar code segment for the mnuLarge_Click() event procedure to maximize the window. The value for maximized is 2.

19. Run the application. Experiment with the menu options. Make notes. Save your work.

Adding Shortcut Keys

20. Select the **Menu Editor...** from the **Tools** menu.

21. Highlight the Red menu item.

22. Click the Shortcut drop-down list box and select the shortcut **Ctrl+R**. Click the OK button to close the Menu Design Window.

23. Run the program. Press Ctrl-R.

24. Add shortcut key combinations Ctrl-B for blue and Ctrl-W for white.

Adding a Separator Bar to a Menu

25. Select **Menu Editor...** from the **Tools** menu.

26. Highlight the Set Size menu item and click the Insert button.

27. In the caption text box type -. (Just a hyphen!)

28. In the name text box type **mnuSep**.

29. Run and test your application. Save it.

Questions:

1. Add a "Foreground Colour" menu item before the separator bar and after the background colour. When selected the user will have a choice between two submenu items - Black or White. When selected it will change the colour of the drawing pen on the form. Disable the selected menu item. Also, update the Form_Load() event procedure so that the correct menu item is disabled at startup.
2. Add a "Font Size" menu between the Form and Help menus. It will have a submenu offering four or five font sizes for the form. For example, 8, 10, 12, 14, and 18. Change the font size of the drawing pen on the form. Place a check mark beside the currently selected font size in the menu. Don't forget to update the Form_Load() event procedure so that a default font size is selected at startup.