

Worksheet 6

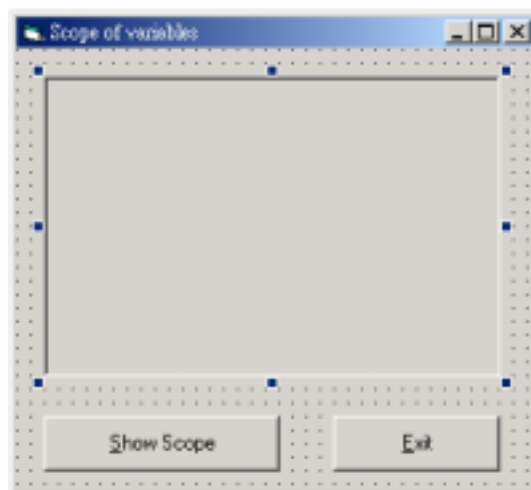
6.1 Try to walkthrough the following program and write down the expected results. Key-in the program and compare the results after execution. This program helps you to understand the scope of variables.

Step 1: Create a form with two command buttons and one picture box according to the properties table below

Properties Table

Object	Property	Setting
Form	Name	frmScope
	Caption	Scope of variables
Command Button	Name	cmdShow
	Caption	&Show Scope
Command Button	Name	cmdExit
	Caption	&Exit
Picture Box	Name	picOutput
	Caption	(empty)

Layout



Step 2 : *Add codes for the events*
cmdShow_Click()
cmdExit

Codes for **cmdShow**

```
Private Sub cmdShow_Click()  
    Dim x As Integer  
  
    picOutput.Cls  
    picOutput.Print "Start program."  
    picOutput.Print  
    x = 1  
    picOutput.Print "Global x = "; x  
    Call FunB  
    picOutput.Print "Global x = "; x  
    picOutput.Print  
    picOutput.Print "End program."  
  
End Sub
```

Codes for **cmdExit**

```
Private Sub cmdExit_Click()  
    End  
End Sub
```

Step 3 : *Add codes for the functions **FunA** and **FunB***

```
Private Function FunA()  
    Dim x As Integer  
  
    picOutput.Print "**** Start Function A."  
    x = 3  
    picOutput.Print "**** In Function A, x = "; x  
    picOutput.Print "**** End Function A."  
End Function  
  
Private Function FunB()  
    Dim x As Integer  
  
    picOutput.Print "Start Function B."  
    x = 2  
    picOutput.Print "*** In Function B, x = "; x  
    Call FunA  
    picOutput.Print "*** In Function B, x = "; x  
    picOutput.Print "*** End Function B."  
  
End Function
```

Step 4 : *Execution*

Click the **Show Scopes** command button.
Terminate the program by clicking the **Exit** button.