



Function Procedures (Continue III)



User-Defined Function Having No Parameters

```
Private Sub btnDisplay_Click(...) _  
    Handles btnDisplay.Click  
    txtBox.Text = Saying()  
End Sub  
  
Function Saying() As String  
    Dim strVar As String  
    strVar = InputBox("What is your" _  
        & " favorite saying?")  
    Return strVar  
End Function
```



Collapsing a Procedure with a Region Directive

- A procedure can be collapsed behind a captioned rectangle
- This task is carried out with a **Region directive**.
- To specify a region, precede the code to be collapsed with a line of the form
#Region "Text to be displayed in the box."
- and follow the code with the line
#End Region



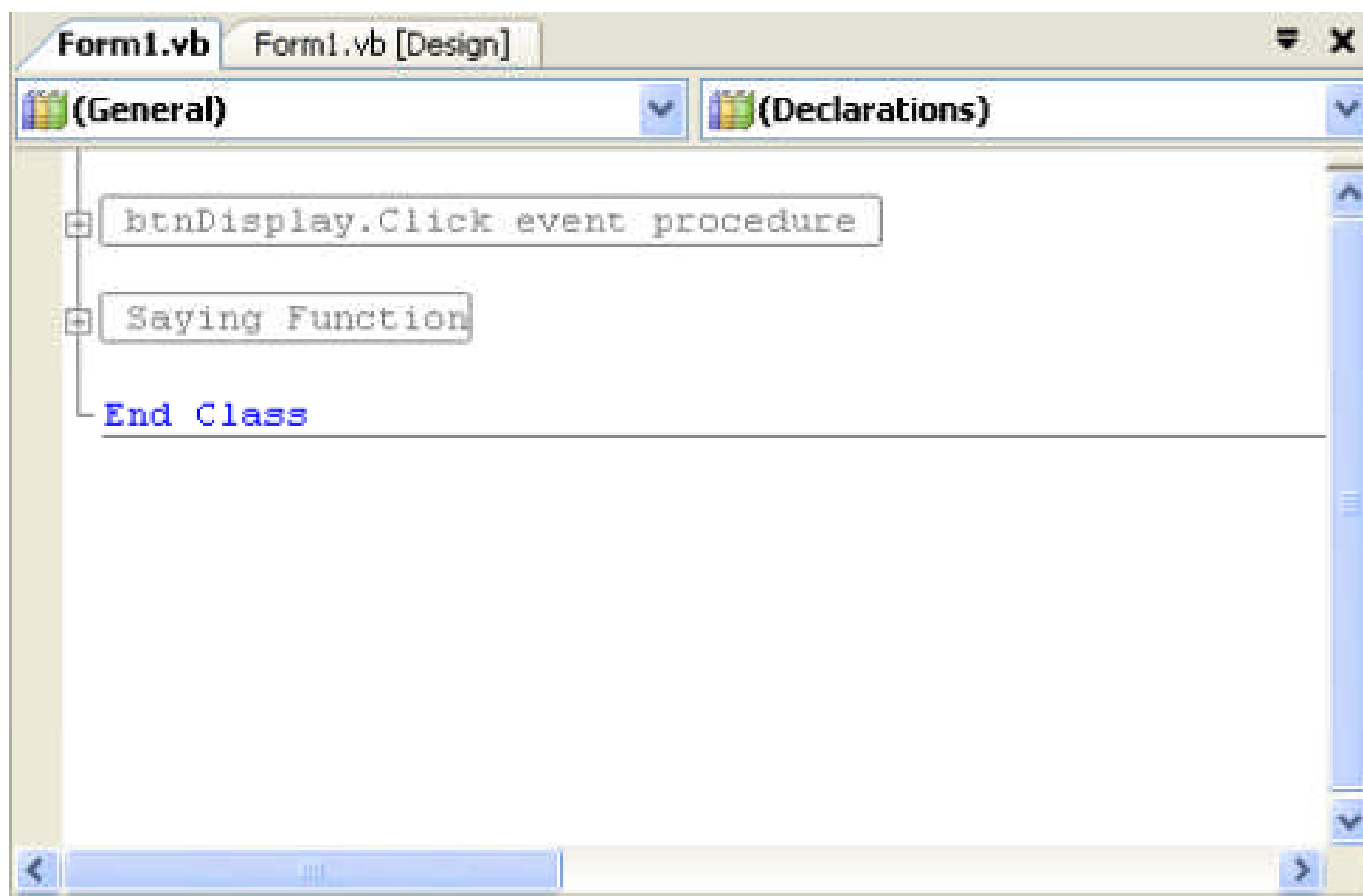
Region Directives

```
Form1.vb Form1.vb [Design]
(General) (Declarations)
#Region " btnDisplay.Click event procedure "
Private Sub btnDisplay_Click(ByVal sender As System.
    'Request and display a saying
    txtBox.Text = Saying()
End Sub
#End Region

#Region " Saying Function"
Function Saying() As String
    'Retrieve a saying from the user
    Return InputBox("What is your favorite saying?")
End Function
#End Region
```



Collapsed Regions





Debugging

- Programs with Sub procedures are easier to debug
- Each Sub procedure can be checked individually before being placed into the program