

Module AccessSpecifier

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Public Class Book 'base class
    Public Title As String
    Private Cost As Integer
    Protected Page As Integer
    Friend Author As String
    Protected Friend Publisher As String

    Public Sub Display()
        Console.WriteLine("Tile : " & Title)
        Console.WriteLine("Cost : " & Cost)
        Console.WriteLine("Page : " & Page)
        Console.WriteLine("Author : " & Author)
        Console.WriteLine("Publisher : " & Publisher)
        Console.WriteLine(vbCrLf)
    End Sub
End Class

Public Class BookUser 'another class
    Public Sub SomeMethod()
        Dim x As New Book()
        'Public member is accessible
        x.Title = "VB.NET Programming"

        'Private member of Book class is not accessible here
        'x.Cost = 156 'will result in error

        'Protected member of Book class is not accessible here
        'x.Page = 142 'will result in error

        'Friend member is accessible
        x.Author = "Harold Davis"

        'Protected Friend member is accessible
        x.Publisher = "O'Reilly Media"

        'print the values
        x.Display()
    End Sub
End Class

Public Class DerivedBook 'derived class from book class
    Inherits Book

    Public Sub AnotherMethod()
        'Private member is not accessible in derived class
        'Cost = 152 'will result in error

        'Public member is accessible in derived class
        Title = ".NET Framework"

        'Protected member is accessible in derived class
        Page = 50

        'Friend member is accessible in derived class
        Author = "Microsoft"

        'Protected Friend member is accessible in derived class
        Publisher = "M Pub"

        'print the values
        Display()
    End Sub
End Class

Sub Main()
    Console.BackgroundColor = ConsoleColor.DarkBlue
    Console.ForegroundColor = ConsoleColor.Yellow
    Console.WriteLine("===== " & vbCrLf & "From other class example" & vbCrLf & "=====")
    Dim bu As New BookUser()
    bu.SomeMethod()
    Console.BackgroundColor = ConsoleColor.Blue
    Console.ForegroundColor = ConsoleColor.White
    Console.WriteLine("===== " & vbCrLf & "From derived class example" & vbCrLf & "=====")
    Dim db As New DerivedBook()
    db.AnotherMethod()

    Console.ReadKey()
End Sub
End Module
```