

## Visual Basic Ch. 8 Fish Class

Name –

```
' the Fish class (filename is Fish.vb)

Public Class Fish
    Private myWeight As Integer          ' properties
    Private myAge As Integer

    Public Sub New()                    ' default constructor
        myWeight = 10
        myAge = 0
    End Sub

    Public Sub New(ByVal intWeight As Integer) ' "other" constructor
        myWeight = intWeight
        myAge = 0
    End Sub

    Public Function getWeight() As Integer ' accessor method
        Return myWeight
    End Function

    Public Sub setWeight(ByVal intWeight As Integer) ' modifier method
        myWeight = intWeight
    End Sub

    Public Sub eat()                    ' "interesting" method
        myWeight += 1                  ' (that doesn't return a value)
    End Sub

    Public Function testIQ() As Integer ' "interesting" function method
        Return Math.Pow(myAge, 2) / myWeight ' (that returns a value)
    End Function
End Class
```

---

```
' client program (filename is Form1.vb)

Public Class Form1

    Dim nemo As New Fish()              ' calls default constructor
    Dim willie As New Fish(15)         ' calls "other" constructor

    Public Sub Button1_Click(. . .)
        MessageBox.Show(nemo.getWeight()) ' calls accessor method

        nemo.setWeight(4)              ' calls modifier method

        nemo.eat()                     ' calls interesting method

        MessageBox.Show(nemo.testIQ()) ' calls interesting function method

        MessageBox.Show(nemo.myAge)    ' causes error since myAge is private
    End Sub
End Class
```