Scope of Variables

'ScopeOfVariables.vb

'Helps show the scope of declared variables in a program

Option Strict On 'Should always do this line
Module ScopeOfVariables

    Dim Number As Integer = 25 'Module level scope, like global variable, known to all

    Sub FindNext(ByVal N As Integer) 'N is also local variable, known only here
        Dim X As Integer 'Local variable, known only in this procedure
        X = 7
        Number = Number + N + X 'changes value of global variable
    End Sub

Sub Main()
    Dim X As Integer 'Local variable, known only in Sub Main()

    X = 100
    FindNext(X)

    If (Number >= 100) Then
        Dim R As Integer 'Block Scope Variable, known only in this if statement
        R = X * 2
        Console.WriteLine("R = {0}", R)
    Else
        Console.WriteLine("Number = {0}", Number)
    End If

    Console.ReadLine()
End Sub

End Module