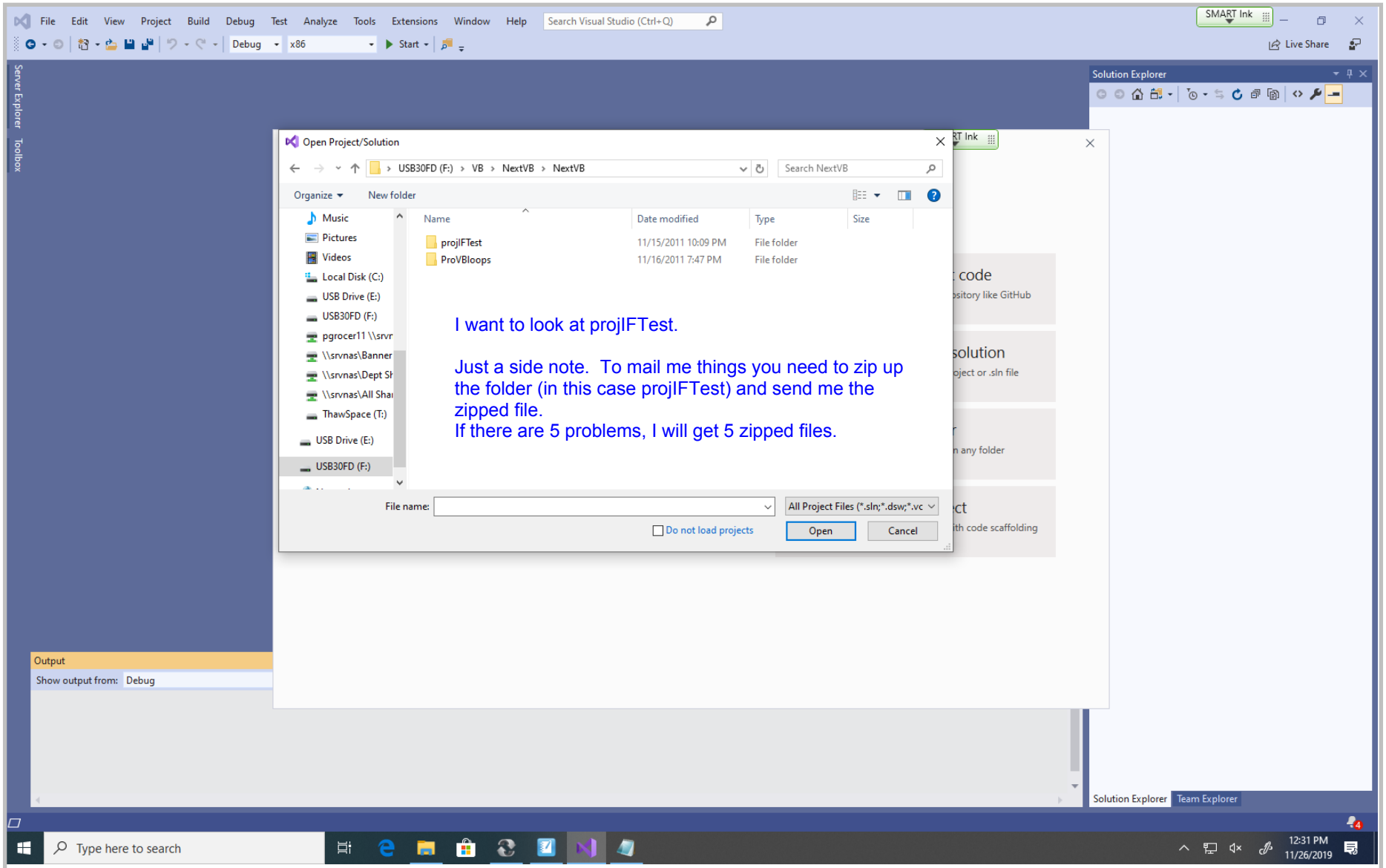


Title: Nov 26-12:25 PM (1 of 15)

```vb
Public Class frmIfTest
    Dim wkDiff As Integer = 0

    Private Sub btnCalculate_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnCalculate.Click
        wkDiff = txtBudget.Text - (Val(txtSpent.Text) + Val(txtCommitted.Text))
        txtDifference.Text = wkDiff
    End Sub

    Private Sub btnCalc_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnCalc.Click
        Dim wkBudget As Integer = 0
        Dim wkSpent As Integer = 0
        Dim wkCommitted As Integer = 0
        Dim wkFromBudget As Integer = 0
        wkBudget = txtBudget.Text
        wkSpent = txtSpent.Text
        wkCommitted = txtCommitted.Text
        wkFromBudget = wkSpent + wkCommitted
        txtFromBudget.Text = wkFromBudget
        txtAmountLeft.Text = wkBudget - wkFromBudget

    End Sub


    Private Sub btnAndEither_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnAndEither.Click
        Dim wkTotal = 0
        wkTotal = Val(txtSpent.Text) + Val(txtCommitted.Text)
        If txtBranch.Text = "Boston" Then
            If txtBudget.Text > 5000 Then
                txtAndEither.Text = "Meets Criteria"
            Else
                If wkTotal > txtBudget.Text / 2 Then
                    txtAndEither.Text = "Meets Criteria"
                Else
                    txtAndEither.Text = "Does Not Meet Criteria"
                End If
            End If
        Else
```

global

local

IF and Calculate

Branch: Boston

Dept: 12

Budget: 6000

Spent: 3400

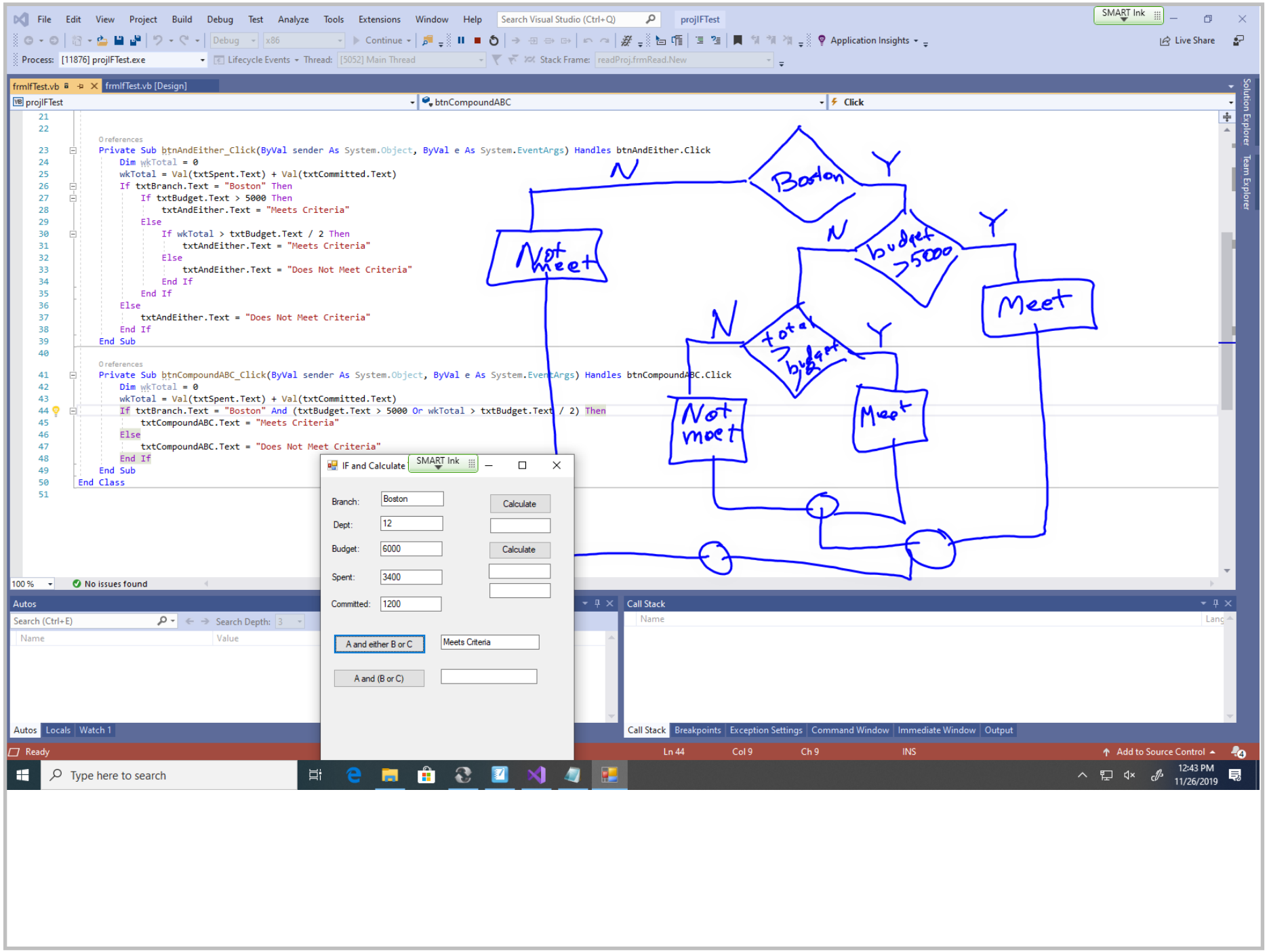
Committed: 1200

Calculate 1400

Calculate 4600 1400

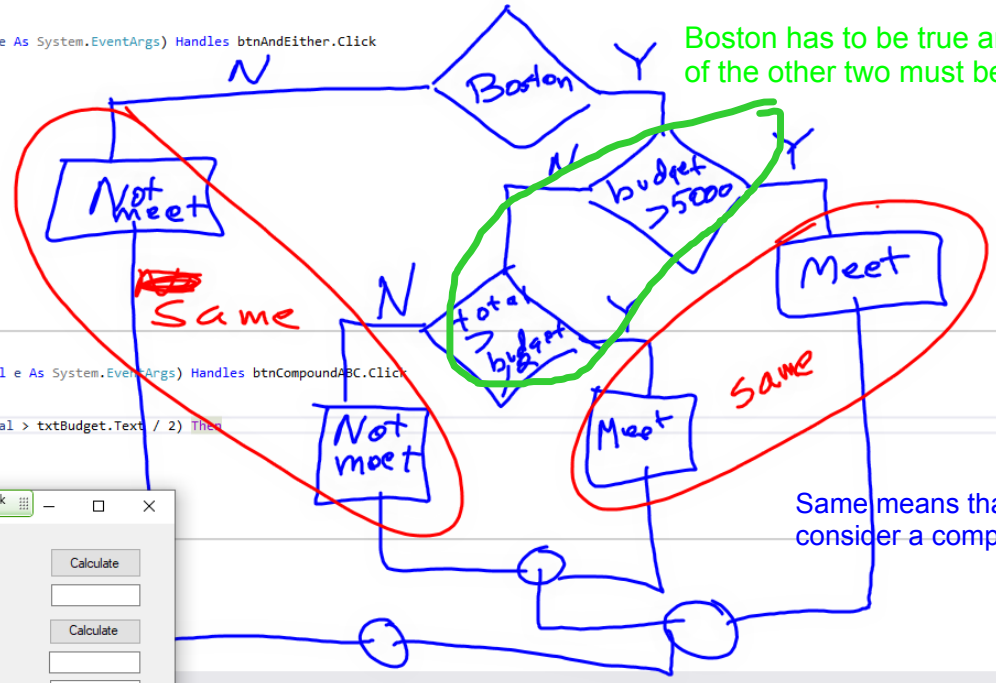
A and either B or C

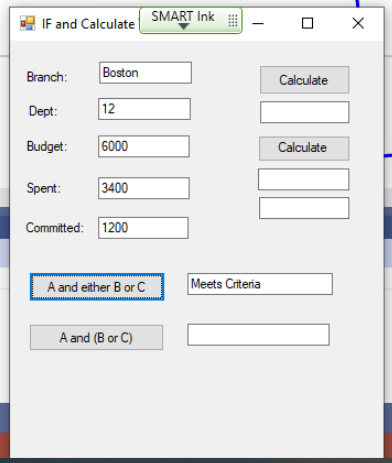
A and (B or C)



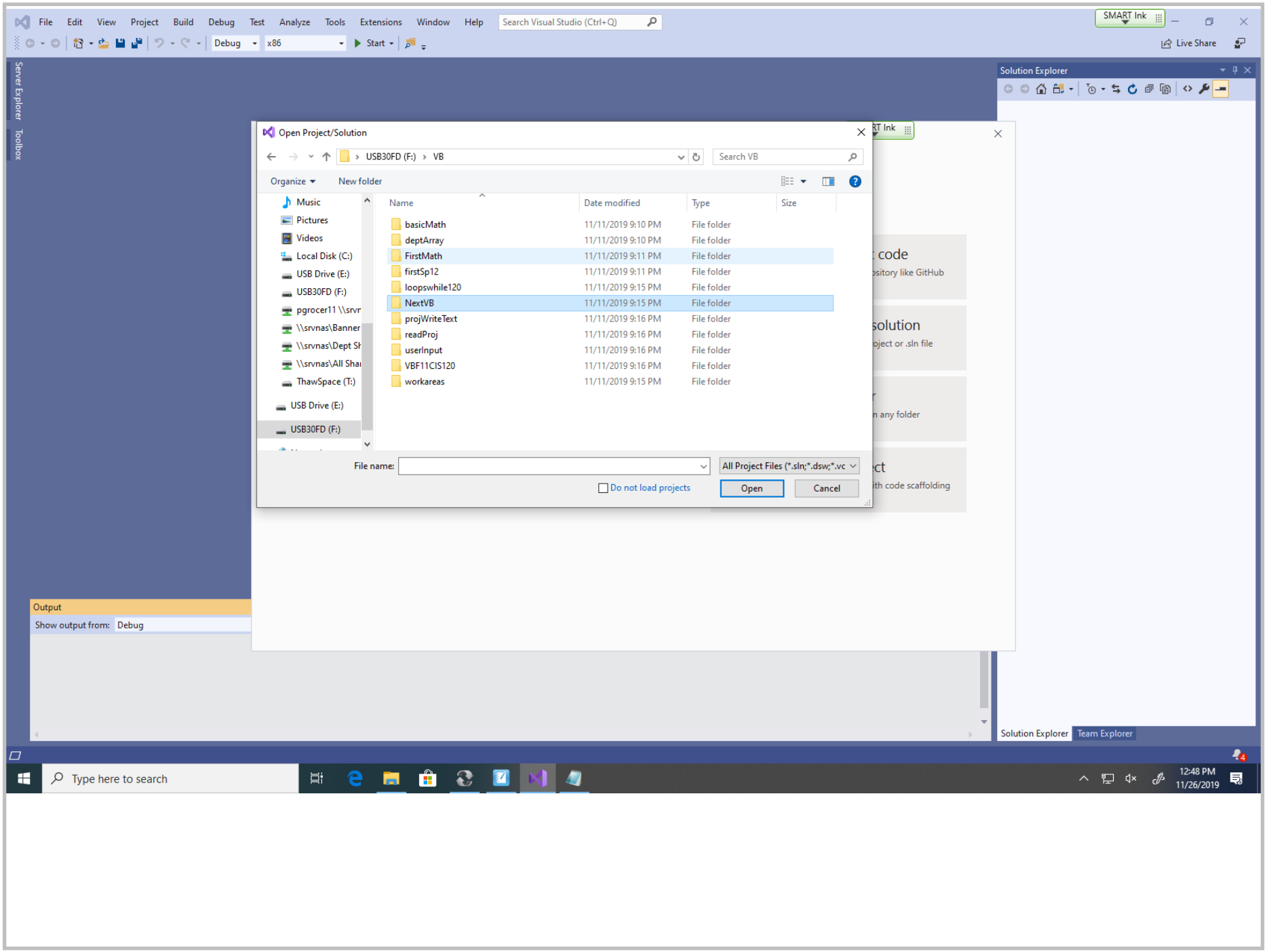
Title: Nov 26-12:43 PM (3 of 15)

```
0 references
Private Sub btnAndEither_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnAndEither.Click
    Dim wkTotal = 0
    wkTotal = Val(txtSpent.Text) + Val(txtCommitted.Text)
    If txtBranch.Text = "Boston" Then
        If txtBudget.Text > 5000 Then
            txtAndEither.Text = "Meets Criteria"
        Else
            If wkTotal > txtBudget.Text / 2 Then
                txtAndEither.Text = "Meets Criteria"
            Else
                txtAndEither.Text = "Does Not Meet Criteria"
            End If
        End If
    Else
        txtAndEither.Text = "Does Not Meet Criteria"
    End If
End Sub

0 references
Private Sub btnCompoundABC_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnCompoundABC.Click
    Dim wkTotal = 0
    wkTotal = Val(txtSpent.Text) + Val(txtCommitted.Text)
    If txtBranch.Text = "Boston" And (txtBudget.Text > 5000 Or wkTotal > txtBudget.Text / 2) Then
        txtCompoundABC.Text = "Meets Criteria"
    Else
        txtCompoundABC.Text = "Does Not Meet Criteria"
    End If
End Sub
End Class
```





Title: Nov 26-12:46 PM (4 of 15)



Title: Nov 26-12:48 PM (5 of 15)

File Edit View Project Build Debug Test Analyze Tools Extensions Window Help
Search Visual Studio (Ctrl+Q)
Debug x86 Start
SMART Ink
Live Share

Server Explorer
Toolbox

Solution Explorer

Open Project/Solution

USB30FD (F:) › VB › deptArray › deptArray
Search deptArray

Organize New folder

Music
Pictures
Videos
Local Disk (C:)
USB Drive (E:)
USB30FD (F:)
pgrocer11 \\srvr
\\srvnas\Banner
\\srvnas\Dept Sh
\\srvnas\All Shar
ThawSpace (T:)
USB Drive (E:)
USB30FD (F:)

Name	Date modified	Type	Size
.vs	11/25/2019 9:00 PM	File folder	
deptArray	12/5/2011 9:28 PM	File folder	
deptArray.sln	11/18/2011 9:30 PM	Visual Studio Solu...	1 KB

File name:
All Project Files (*.sln;*.dsw;*.vc
Do not load projects
Open
Cancel

code
sitory like GitHub
solution
oject or .sln file
n any folder
ct
th code scaffolding

Output
Show output from: Debug

Solution Explorer Team Explorer

Type here to search
12:48 PM
11/26/2019

Title: Nov 26-12:48 PM (6 of 15)

File Edit View Project Build Debug Test Analyze Tools Extensions Window Help Search Visual Studio (Ctrl+Q) deptArray

Process: [6920] deptArray.exe Lifecycle Events Thread: [5052] Main Thread Stack Frame: readProj.frmRead.New

frmDeptArray.vb | frmDeptArray.vb [Design]

deptArray | (frmDeptArray Events) | Load

```vb
1 reference
Public Class frmDeptArray
    Dim DeptName(5) As String
    0 references
    Private Sub frmDeptArray_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load

        DeptName(1) = "Girls"
        DeptName(2) = "Boys"
        DeptName(3) = "Infacnts"
        DeptName(4) = "Toys"
        DeptName(5) = "Books"
    End Sub

    0 references
    Private Sub btnGetName_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnGetName.Click
        If Val(txtDeptNo.Text) > 0 And txtDeptNo.Text < 6 Then
            txtDeptName.Text = DeptName(txtDeptNo.Text)
        Else
            txtDeptName.Text = ("Invalid Department Number")
        End If
    End Sub

    0 references
    Private Sub btnClear_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnClear.Click
        txtDeptNo.Clear()
        txtDeptName.Clear()
    End Sub

    0 references
    Private Sub btnExit_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnExit.Click
        End
    End Sub
End Class
```

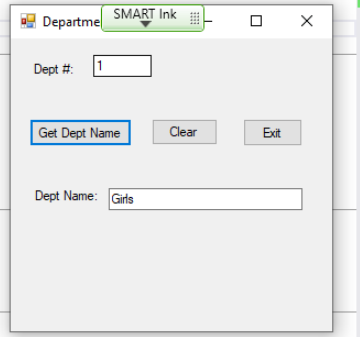
Index Pointer Subscript

Dept Name

Dept Name(1) Girls

Dept Name(2) Boys

3



100 % No issues found

Autos: Search (Ctrl+E) Search Depth: 3 — Name | Value | Type

Call Stack: Name

Autos | Locals | Watch 1 | Call Stack | Breakpoints | Exception Settings | Command Window | Immediate Window | Output

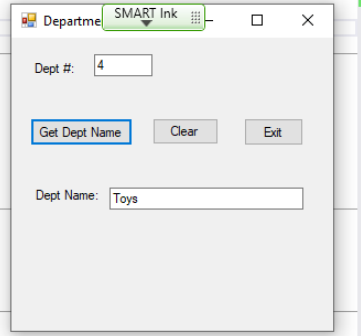
Ready Ln 9 Col 20 Ch 20 INS Add to Source Control

Type here to search 12:54 PM 11/26/2019

```vb
Public Class frmDeptArray
    Dim DeptName(5) As String
    Private Sub frmDeptArray_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load

        DeptName(1) = "Girls"
        DeptName(2) = "Boys"
        DeptName(3) = "Infacnts"
        DeptName(4) = "Toys"
        DeptName(5) = "Books"
    End Sub

    Private Sub btnGetName_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnGetName.Click
        If Val(txtDeptNo.Text) > 0 And txtDeptNo.Text < 6 Then
            txtDeptName.Text = DeptName(txtDeptNo.Text)
        Else
            txtDeptName.Text = ("Invalid Department Number")
        End If
    End Sub

    Private Sub btnClear_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnClear.Click
        txtDeptNo.Clear()
        txtDeptName.Clear()
    End Sub

    Private Sub btnExit_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnExit.Click
        End
    End Sub
End Class
```

Index
Pointer
Subscript

Dept Name
Dept Name(1) Girls
Dept Name(2) Boys
3



Basic Array — http://cisweb.bristolcc.edu/~pgro

view-source:http://cisweb.bristolcc.edu/~pgrocer/CIS120/

```html
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<title>Basic Array</title>
<style type="text/css">
body
   {
    background-color: beige;
    color: navy;
   }
</style>
<script type="text/javascript">
deptArray = new Array(4);
deptArray[0] = "No Dept 0";
deptArray[1] = "BU";
deptArray[2] = "CI";
deptArray[3] = "CU";
deptArray[4] = "OF";
// I have an array that starts with 0 and ends with 4 so the number when I define
//the array is 4 event though there are 5 elements.  I could eliminate the
// 0th element and it will work the same.
</script>
</head>
<body>
<h1>Check Department</h1>
<p>Divison III has four department.</p>
<script type="text/javascript">
deptNo = prompt("Please enter the department number",2);
if (deptNo < 5)
    {
     document.write("The department is " + deptArray[deptNo]);
    }
else
    {
     document.write("Invalid dept number");
    }
</script>
<h1>The end!</h1>
</body>
</html>
```

A similiar array in JavaScript

frmDeptArray.vb* — frmDeptArray.vb [Design]

deptArray — (frmDeptArray Events) — Load

```vb
Public Class frmDeptArray
    Dim DeptName(4) As String
    Private Sub frmDeptArray_Load(ByVal sender As System.Object, ByVal e As System.
        DeptName(0) = "No Dept 0"
        DeptName(1) = "BU"
        DeptName(2) = "CI"
        DeptName(3) = "CU"
        DeptName(4) = "OF"
    End Sub

    Private Sub btnGetName_Click(ByVal sender As System.Object, ByVal e As System.E
        If Val(txtDeptNo.Text) > 0 And txtDeptNo.Text < 6 Then
            txtDeptName.Text = DeptName(txtDeptNo.Text)
        Else
            txtDeptName.Text = ("Invalid Department Number")
        End If
    End Sub

    Private Sub btnClear_Click(ByVal sender As System.Object, ByVal e As System.Eve
        txtDeptNo.Clear()
        txtDeptName.Clear()
    End Sub

    Private Sub btnExit_Click(ByVal sender As System.Object, ByVal e As System.Even
        End
    End Sub
End Class
```

Rewritten in Visual Basic.

Output — Show output from: Debug

```
'deptArray.exe' (CLR v4.0.30319: deptArray.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_
'deptArray.exe' (CLR v4.0.30319: deptArray.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_
'deptArray.exe' (CLR v4.0.30319: deptArray.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_
'deptArray.exe' (CLR v4.0.30319: deptArray.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_
'deptArray.exe' (CLR v4.0.30319: deptArray.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_
The program '[6920] deptArray.exe: Program Trace' has exited with code 0 (0x0).
The program '[6920] deptArray.exe' has exited with code 0 (0x0).
```

Ln 9 Col 1 Ch 1 INS

File Edit View Project Build Debug Format Test Analyze Tools Extensions Window Help

Search Visual Studio (Ctrl+Q)

projWriteText

Debug x86 Start

Live Share

Server Explorer Toolbox Data Sources

frmWrite.vb* frmWrite.vb [Design]*

Write Data

Idno:

Name:

Major:

Write End

Solution Explorer

Search Solution Explorer (Ctrl+;)

Solution 'projWriteText' (1 of 1 project)

projWriteText

My Project

References

frmWrite.vb

Solution Explorer Team Explorer

Properties

frmWrite System.Windows.Forms.Form

AccessibleRole	Default
Appearance	
BackColor	Control
BackgroundImage	(none)
BackgroundImageLayout	Tile
Cursor	Default
Font	Microsoft Sans Serif, 8.25pt
ForeColor	ControlText
FormBorderStyle	Sizable
RightToLeft	No
RightToLeftLayout	False
Text	**Write Data**
UseWaitCursor	False

Text

The text associated with the control.

Ready

Add to Source Control

Type here to search

1:11 PM 11/26/2019

Title: Nov 26-1:11 PM (10 of 15)

```vb
1 reference
Public Class frmWrite

    0 references
    Private Sub btnWrite_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnWrite.Click
        Dim dataWrite As String = txtIdNo.Text + "," + txtName.Text + "," + txtMajor.Text + vbCrLf
        My.Computer.FileSystem.WriteAllText("F:\studentFall2019.txt", dataWrite, True)
        txtIdNo.Clear()
        txtName.Clear()
        txtMajor.Clear()
        txtIdNo.Focus()
    End Sub

    0 references
    Private Sub btnEnd_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnEnd.Click

        End
    End Sub
End Class
```

Write Data

Idno: 111

Name: Susan Ash

Major: CI

Write End

Writing a file.

File Edit View Project Build Debug Test Analyze Tools Extensions Window Help Search Visual Studio (Ctrl+Q) projWriteText

Debug x86 Start Live Share

frmWrite.vb frmWrite.vb [Design]

projWriteText btnWrite Click

```
1 reference
Public Class frmWrite

    0 references
    Private Sub btnWrite_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnWrite.Click
        Dim dataWrite As String = txtIdNo.Text + "," + txtName.Text + "," + txtMajor.Text + vbCrLf
        My.Computer.FileSystem.WriteAllText("F:\studentFall2019.txt", dataWrite, True)
        txtIdNo.Clear()
        txtName.Clear()
        txtMajor.Clear()
        txtIdNo.Focus()
```

USB30FD (F:)

This PC › USB30FD (F:)

Name	Date modified	Type	Size
mult1	10/3/2019 2:05 PM	HTML File	1 KB
multdiv	10/3/2019 2:22 PM	HTML File	1 KB
mymath	10/7/2019 12:17 PM	HTML File	1 KB
OFCviability	10/14/2019 10:29 PM	OpenDocument T...	205 KB
Python	10/14/2019 10:29 PM	Microsoft Word D...	28 KB
quizreturn	11/25/2019 1:02 PM	HTML File	4 KB
quiztotry1	12/1/2013 6:24 PM	HTML File	4 KB
quiztotryall	12/1/2013 6:27 PM	HTML File	4 KB
quiztotryall28	12/1/2013 6:45 PM	HTML File	4 KB
quiztotrynopass19	12/1/2013 6:18 PM	HTML File	4 KB
samplequiz1HTML5	12/1/2013 4:44 PM	HTML File	2 KB
samplequiz2aHTML5	12/1/2013 5:05 PM	HTML File	2 KB
samplequiz2HTML5	12/1/2013 5:02 PM	HTML File	2 KB
samplequiz3HTML5	12/1/2013 5:33 PM	HTML File	2 KB
student4tableexample	10/31/2019 1:19 PM	Microsoft Access ...	476 KB
studentF19	11/26/2019 8:01 AM	Text Document	1 KB
studentFall19	11/26/2019 11:58 AM	Text Document	1 KB
studentFall2019	11/26/2019 1:15 PM	Text Document	1 KB
testDOMmath	10/20/2019 8:29 PM	HTML File	1 KB
todo	11/18/2019 9:56 PM	Text Document	1 KB
viability	10/14/2019 10:29 PM	Microsoft Word 9...	38 KB
whatever	10/15/2019 2:28 PM	HTML File	1 KB
zzz	10/7/2019 6:40 PM	Notebook File	5,672 KB

Type: Notebook File
Size: 5.53 MB
Date modified: 10/7/2019 6:40 PM

247 items 1 item selected

```
The program '[1304] projWriteText.exe' has exited with code 0 (0x0).
```

Solution Explorer

Solution 'projWriteText' (1 of 1 project)
projWriteText
My Project
References
frmWrite.vb

Solution Explorer Team Explorer

Properties

Ready Ln 5 Col 62 Ch 62 INS Add to Source Control

Type here to search 1:16 PM 11/26/2019

Title: Nov 26-1:16 PM (12 of 15)

```vb
Public Class frmRead

    Dim MyReader As New Microsoft.VisualBasic.FileIO.TextFieldParser("F:\studentFall2019.txt")

    Private Sub btnRead_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnRead.Click

        Dim currentRow As String()
        If Not MyReader.EndOfData Then

            currentRow = MyReader.ReadFields()
            txtIdNo.Text = currentRow(0)
            txtName.Text = currentRow(1)
            txtMajor.Text = currentRow(2)
        Else
            Label1.Text = "End of file reached!"
        End If

    End Sub

    Private Sub frmRead_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load

        MyReader.TextFieldType = FileIO.FieldType.Delimited
        MyReader.SetDelimiters(",")

    End Sub
End Class
```

Form1

IdNo: 111

Name: Susan Ash

Major: CI

Read

Title: Nov 26-1:21 PM (13 of 15)

```vb
Public Class frmRead

    Dim MyReader As New Microsoft.VisualBasic.FileIO.TextFieldParser("F:\studentFall2019.txt")

    Private Sub btnRead_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnRead.Click

        Dim currentRow As String()
        If Not MyReader.EndOfData Then

            currentRow = MyReader.ReadFields()
            txtIdNo.Text = currentRow(0)
            txtName.Text = currentRow(1)
            txtMajor.Text = currentRow(2)
        Else
            Label1.Text = "End of file reached!"
        End If

    End Sub

    Private Sub frmRead_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load

        MyReader.TextFieldType = FileIO.FieldType.Delimited
        MyReader.SetDelimiters(",")

    End Sub
End Class
```

Form1

IdNo: 444

Name: John Doe

Major: BU

Read

End of file reached!

Title: Nov 26-1:21 PM (14 of 15)

When you want to send to me, you need to zip up the file and use the Add to - then send me that zipped file.

Title: Nov 26-1:22 PM (15 of 15)