Public Class frmInClassIF

Private Sub btnFirst_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnFirst.Click
' Write the code to check code for A and field1 > 5000 OR
' Check the code for B and field2 > 2500
' Respond with OK or Problem
' Do it once with separate if statements and then in btnsecond
' Do it using one if statement
If txtCode.Text = "A" Then
    If txtField1.Text > 5000 Then
        txtResult.Text = "OK"
    Else
        txtResult.Text = "Problem"
    End If
Else
    If txtCode.Text = "B" Then
        If txtField2.Text > 2500 Then
            txtResult.Text = "OK"
        Else
            txtResult.Text = "Problem"
        End If
    Else
        txtResult.Text = "Problem"
    End If
End If
End Sub

Private Sub btnSecond_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnSecond.Click
    txtResult.Text = "OK"
Else
    txtResult.Text = "Problem"
End If
End Sub
Private Sub btnSecond_click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnSecond.Click
        Else
        txtResult.Text = "Problem"
    End If
End Sub

Private Sub btnThird_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnThird.Click
    'Write the code to check for code = A and either field1 > 8 or field2 > 12
    'Write it with separate if statements and then in btnThird
    'do it one if statement
    'Write appropriate message
    If txtCode.Text = "A" Then
        If txtField1.Text > 5 Then
            txtResult.Text = "OK"
        Else
            If txtField2.Text > 8 Then
                txtResult.Text = "OK"
            Else
                If txtField3.Text > 12 Then
                    txtResult.Text = "OK"
                End If
            End If
        End If
    End If
End If

Private Sub btnFourth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnFourth.Click
    'Write the code to test for code = A and either field1 > 10 or

Private Sub btnThird_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnThird.Click
    'Write the code to check for code = A and either field1 greater than 5 or field2 greater than 8 or field3 greater than 12
    'Write it with separate if statements and then in btnThird
    'do it one if statement
    'Write appropriate message
    If txtCode.Text = "A" Then
        If txtField1.Text > 5 Then
            txtResult.Text = "OK"
        Else
            If txtField2.Text > 8 Then
                txtResult.Text = "OK"
            Else
                If txtField3.Text > 12 Then
                    txtResult.Text = "OK"
                End If
            End If
        End If
    End If
End Sub

Private Sub btnSixth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnSixth.Click
    If txtCode.Text = "A" And (txtField1.Text > 5 Or txtField2.Text > 8 Or txtField3.Text > 12) Then
        txtResult.Text = "OK"
    End If
End Sub

Private Sub btnFourth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnFourth.Click
    'Write the code to test for code = A and either field1 > 10 or
    'field2 > 20 and field3 > 40
    'Write different message for each of the options meeting the

Private Sub btnThird_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
    'Write the code to check for code = A and either field1 greater than 5 or field2 greater than 8 or field3 greater than 12
    'Write it with separate if statements and then in btnThird
    'do it one if statement
    'Write appropriate message
    If txtCode.Text = "A" Then
        If txtField1.Text > 5 Then
            txtResult.Text = "OK"
        Else
            If txtField2.Text > 8 Then
                txtResult.Text = "OK"
            Else
                If txtField3.Text > 12 Then
                    txtResult.Text = "OK"
                End If
            End If
        End If
    End If
End Sub

Private Sub btnSixth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
    If txtCode.Text = "A" And (txtField1.Text > 5 Or txtField2.Text > 8 Or txtField3.Text > 12) Then
        txtResult.Text = "OK"
    End If
End Sub

Private Sub btnFourth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnFourth.Click
    'Write the code to test for code = A and either field1 > 10 or field2 > 20 and field3 > 40
    'Write different message for each of the options meeting the

Private Sub btnThird_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnThird.Click
    'Write the code to check for code - A and either field1 greater
    'than 5 or field2 greater than 8 or field3 greater than 12
    'Write it with separate if statements and then in btnThird
    'do it one if statement
    'Write appropriate message
    If txtCode.Text = "A" Then
        If txtField1.Text > 5 Then
            txtResult.Text = "OK"
        Else
            If txtField2.Text > 8 Then
                txtResult.Text = "OK"
            Else
                If txtField3.Text > 12 Then
                    txtResult.Text = "OK"
                End If
            End If
        End If
    Else
        End If
    End If
End Sub

Private Sub btnSixth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnSixth.Click
    If txtCode.Text = "A" And (txtField1.Text > 5 Or txtField2.Text > 8 Or txtField3.Text > 12) Then
        txtResult.Text = "OK"
    Else
        End If
    End If
End Sub

Private Sub btnFourth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnFourth.Click
    'Write the code to test for code - A and either field1 > 10 or
    'field2 > 20 and field3 > 40
    'Write different message for each of the options meeting the
Private Sub btnThird_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnThird.Click
    'Write the code to check for code - A and either field1 greater than 5 or field2 greater than 8 or field3 greater than 12
    'Write it with separate if statements and then in btnThird
    'Do it one if statement
    'Write appropriate message
    If txtCode.Text = "A" Then
        If txtField1.Text > 5 Then
            txtResult.Text = "OK field1"
        Else
            If txtField2.Text > 8 Then
                txtResult.Text = "OK field2"
            Else
                If txtField3.Text > 12 Then
                    txtResult.Text = "OK field3"
                End If
            End If
        End If
    End If
End Sub

Private Sub btnSixth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnSixth.Click
    If txtCode.Text = "A" And (txtField1.Text > 5 Or txtField2.Text > 8 Or txtField3.Text > 12) Then
        txtResult.Text = "OK"
    End If
End Sub

Private Sub btnFourth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnFourth.Click
    'Write the code to test for code - A and either field1 > 10 or field2 > 20 and field3 > 40
    'Write different message for each of the options meeting the
Private Sub btnThird_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
    'Write the code to check for code = A and either field1 greater than 5 or field2 greater than 8 or field3 greater than 12
    'Write it with separate if statements and then in btnThird
    'do it one if statement
    'Write appropriate message
    If txtCode.Text = "A" Then
        If txtField1.Text > 5 Then
            txtResult.Text = "OK"
        Else
            If txtField2.Text > 8 Then
                txtResult.Text = "OK"
            Else
                If txtField3.Text > 12 Then
                    txtResult.Text = "OK"
                End If
            End If
        End If
    End If
End Sub

Private Sub btnSixth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
    txtResult.Text = "OK"
End Sub

Private Sub btnFourth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnFourth.Click
    'Write the code to test for code = A and either field1 > 10 or
    Problem
End Sub
Private Sub btnThird_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnThird.Click
    'Write the code to check for code = A and either field1 greater than 5 or field2 greater than 8 or field3 greater than 12
    'Write it with separate if statements and then in btnThird
    'do it one if statement
    'Write appropriate message
    If txtCode.Text = "A" Then
        If txtField1.Text > 5 Then
            txtResult.Text = "OK"
        Else If txtField2.Text > 8 Then
            txtResult.Text = "OK"
        Else If txtField3.Text > 12 Then
            txtResult.Text = "OK"
        Else
            txtResult.Text = "Problem"
        End If
    End If
End Sub

Private Sub btnSixth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnSixth.Click
    If txtCode.Text = "A" And (txtField1.Text > 5 Or txtField2.Text > 8 Or txtField3.Text > 12) Then
        txtResult.Text = "OK"
    Else
        txtResult.Text = "Problem"
    End If
End Sub
Private Sub btnSixth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnSixth_Click
    IfTxtCode.Text = "A" And (txtField1.Text > 5 Or txtField2.Text > 8 Or txtField3.Text > 12) Then
        txtResult.Text = "OK"
    Else
        txtResult.Text = "Problem"
    End If
End Sub

Private Sub btnFourth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnFourth_Click
    Write the code to test for code = A and either Field1 > 10 or Field2 > 20 and Field3 > 40.
    Write different messages for each of the options meeting the criteria and different messages for each of the options not meeting the criteria.
End Sub

Private Sub btnFifth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnFifth_Click
    Write the code for code A and Field1 > 100 or Field2 > 200 or 
    code B and either Field1 or Field2 greater than 100 or 
    code C and Field3 < 50
End Sub
Private Sub btnFourth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnFourth.Click
    'Write the code to test for code = A and either 
    'field2 > 20 and field3 > 40 
    'Write different message for each of the options 
    'criteria and different messages for each of the 
    'meeting the criteria 
    If txtCode.Text = "A" Then 
        If txtField1.Text > 10 Then 
            txtResult.Text = "Message 1"
        Else 
            If txtField2.Text > 20 Then 
                If txtField3.Text > 40 Then 
                    txtResult.Text = "Message 2"
                Else 
                    txtResult.Text = "Problem 1"
                End If 
            Else 
                txtResult.Text = "Problem 2"
            End If 
        Else 
            txtResult.Text = "Problem 3"
        End If 
    End If 
End Sub

Private Sub btnFifth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnFifth.Click
    'Write the code for code A and field1 > 100 or field2 > 200 or 
    'code B and either field1 or field2 greater than 100 or 
    'code C and field 3 < 50 
End Sub
'field2 > 20 and field3 > 40
'Write different message for each of the options meeting the
criteria and different messages for each of the options not
meeting the criteria
If txtCode.Text = "A" Then
    If txtField1.Text > 10 Then
        txtResult.Text = "Message 1"
    Else
        If txtField2.Text > 20 Then
            If txtField3.Text > 40 Then
                txtResult.Text = "Message 2"
            Else
                txtResult.Text = "Problem 1"
            End If
        Else
            txtResult.Text = "Problem 2"
        End If
    Else
        txtResult.Text = "Problem 3"
    End If
Else
    Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button2.Click
        'Write the code for code A and field1 > 10 or field2 > 20 or
        'code B and either field1 or field2 greater than 100 or
        'code C and field 3 < 50
    End Sub
'field2 > 20 and field3 > 40
'Write different message for each of the options meeting the
'criteria and different messages for each of the options not
'meeting the criteria
If txtCode.Text = "A" Then
    If txtField1.Text > 10 Then
        txtResult.Text = "Message 1"
    Else
        If txtField2.Text > 20 Then
            If txtField3.Text > 40 Then
                txtResult.Text = "Message 2"
            Else
                txtResult.Text = "Problem 1"
            End If
        Else
            txtResult.Text = "Problem 2"
        End If
    End If
Else
    txtResult.Text = "Problem 3"
End If

Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button2.Click
    If txtCode.Text = "A" And (txtField1.Text > 10 Or txtField2.Text > 20 And txtField3.Text > 40) Then
End Sub

Private Sub btnFifth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnFifth.Click
    'Write the code for code A and field1 > 100 or field2 > 200 or
    'code B and either field1 or field2 greater than 100 or
    'code C and field3 < 50
End Sub
'field2 > 20 and field3 > 40
Write different message for each of the options meeting the
criteria and different messages for each of the options not
meeting the criteria
If txtCode.Text = "A" Then
    If txtField1.Text > 10 Then
        txtResult.Text = "Message 1"
    Else
        If(txtField2.Text > 20 Then
            If txtField3.Text > 40 Then
                txtResult.Text = "Message 2"
            Else
                txtResult.Text = "Problem 1"
            End If
        Else
            txtResult.Text = "Problem 2"
        End If
    End If
Else
    txtResult.Text = "Problem 3"
End If

End Sub

Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button2.Click
    If txtCode.Text = "A" And (txtField1.Text > 10 Or txtField2.Text > 20) And txtField3.Text > 40 Then
End Sub

Private Sub btnFifth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnFifth.Click
    'Write the code for code A and field1 > 100 or field2 > 200 or
    'code B and either field1 or field2 greater than 100 or
    'code C and field 3 < 50
End Sub
```vbnet
Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button2.Click
    If txtField1.Text = "A" And (txtField2.Text = 20 Or txtField2.Text = 20.0) Then
        txtResult.Text = "Problem 1"
    Else
        txtResult.Text = "Problem 2"
    End If
    Else
        txtResult.Text = "Problem 3"
    End If
End Sub

Private Sub btnFifth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnFifth.Click
    'Write the code for code A and field1 > 100 or field2 > 200 or
    'code B and either field1 or field2 greater than 100 or
    'code C and field
End Sub
```
Private Sub btnFifth_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnFifth.Click
    If txtCode.Text = "A" And (txtField1.Text > 10 Or txtField2.Text > 20) Then
        txtResult.Text = "OK"
    Else
        If txtCode.Text = "B" And (txtField1.Text > 10 Or txtField2.Text > 10) Then
            txtResult.Text = "OK"
        Else
            If txtCode.Text = "C" And txtField3.Text < 50 Then
                txtResult.Text = "OK"
            Else
                txtResult.Text = "Problem"
            End If
        End If
    End If
End Sub
Public Class frmOtherDecisions

Private Sub btnGrade_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnGrade.Click
    If IsNumeric(txtGrade.Text) Then
        If txtGrade.Text > 12 Then
            txtGradeword.Text = "College"
        ElseIf txtGrade.Text > 8 Then
            txtGradeword.Text = "High School"
        ElseIf txtGrade.Text > 6 Then
            txtGradeword.Text = "Middle School"
        Else
            txtGradeword.Text = "Elementary School"
        End If
    Else
        If txtGrade.Text.ToLower() = "k" Then
            txtGradeword.Text = "Kindergarten"
        Else
            txtGradeword.Text = "Invalid entry"
        End If
    End If
End Sub

Private Sub btnGetName_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnGetName.Click
    Dim wkName As String, wkLen As Integer
    If txtName.Text = String.Empty Then
        txtNameUntrimmed.Text = "Nothing entered"
    Else
        wkName = txtName.Text.Trim()
        txtNameTrim.Text = wkName
        txtNameUntrimmed.Text = txtName.Text
        wkLen = wkName.Length
        MessageBox.Show(wkLen)
    End If
    If txtName.Text = "" Then

Looking at examples from chapter #4 - this deals with ElseIf
Public Class frmOtherDecisions

    Private Sub btnGrade_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnGrade.Click
        If IsNumeric(txtGrade.Text) Then
            If txtGrade.Text > 12 Then
                txtGradeWord.Text = "College"
            ElseIf txtGrade.Text > 8 Then
                txtGradeWord.Text = "High School"
            ElseIf txtGrade.Text > 6 Then
                txtGradeWord.Text = "Middle School"
            Else
                txtGradWord.Text = "Elementary School"
            End If
        Else
            If txtGrade.Text.ToLower() = "k" Then
                txtGradWord.Text = "Kindergarten"
            Else
                txtGradWord.Text = "Invalid entry"
            End If
        End If
    End Sub

    Private Sub btnGetName_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnGetName.Click
        Dim wName As String, wLen As Integer
        If txtName.Text = String.Empty Then
            txtNameUntrimmed.Text = "Nothing entered"
        Else
            wName = txtName.Text.Trim()
            txtNameTrim.Text = wName
            txtNameUntrimmed.Text = txtName.Text
            wLen = wName.Length
            MessageBox.Show(wLen)
        End If
        If txtName.Text = "" Then
            .Net Framework图标: SMART WND
            Examples using VB 2.0...
            otherDecisions - Microsoft Visual Studio
            Title: Feb 10-1:32 PM (21 of 28)
Public Class frmOtherDecisions

Private Sub btnGrade_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnGrade.Click
    If IsNumeric(txtGrade.Text) Then
        If txtGrade.Text > 12 Then
            txtGradWord.Text = "College"
        ElseIf txtGrade.Text > 8 Then
            txtGradWord.Text = "High School"
        ElseIf txtGrade.Text > 6 Then
            txtGradWord.Text = "Middle School"
        Else
            txtGradWord.Text = "Elementary School"
        End If
    Else
        If txtGrade.Text.ToLower() = "k" Then
            txtGradWord.Text = "Kindergarten"
        Else
            txtGradWord.Text = "Invalid entry"
        End If
    End If
End Sub

Private Sub btnGetName_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnGetName.Click
    Dim wName As String, wLen As Integer
    If txtName.Text = String.Empty Then
        txtNameUntrimmed.Text = "Nothing entered"
    Else
        wName = txtName.Text.Trim()
        txtNameTrim.Text = wName
        txtNameUntrimmed.Text = txtName.Text
        wLen = wName.Length
        MessageBox.Show(wLen)
    End If
End Sub

End Class
Public Class frmOtherDecisions

Private Sub btnGrade_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnGrade.Click
    Dim txtGrade As String = txtGrade.Text
    Dim txtGradeWord As String = "Invalid entry"
    If IsNumeric(txtGrade) Then
        If txtGrade > 12 Then
            txtGradeWord = "College"
        ElseIf txtGrade > 8 Then
            txtGradeWord = "High School"
        ElseIf txtGrade > 6 Then
            txtGradeWord = "Middle School"
        Else
            txtGradeWord = "Elementary School"
        End If
    Else
        If txtGrade.ToLower() = "k" Then
            txtGradeWord = "Kindergarten"
        Else
            txtGradeWord = "Invalid entry"
        End If
    End If
    txtGradeWord.Text = txtGradeWord
End If

Private Sub btnGetName_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnGetName.Click
    Dim wName As String, wLen As Integer
    If txtName.Text = String.Empty Then
        txtName.Untrimmed.Text = "Nothing entered"
    Else
        wName = txtName.Text.Trim()
        txtNameTrim.Text = wName
        txtNameUntrimmed.Text = txtName.Text
        wLen = wName.Length
        MessageBox.Show(wLen)
    End If
    If txtName.Text = "" Then
End If

End Class
Private Sub btnGetName_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnGetName.Click
   Dim newName As String, newNum As Integer
   If txtName.Text = String.Empty Then
      txtNameUntrimmed.Text = "Nothing entered"
   Else
      newName = txtName.Text.Trim()
      txtNameTrim.Text = newName
      txtNameUntrimmed.Text = txtName.Text
      newNum = newName.Length
      MessageBox.Show(newNum)
   End If
   If txtName.Text = "" Then
      txtNameTrim.Text = "Nothing in text box"
   End If
End Sub

Private Sub btnGetName_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnGetName.Click
   Dim newHyphen As Integer, newLocation As String, newRoom As String
   newHyphen = txtLocation.Text.IndexOf("-")
   newRoom = txtLocation.Substring(newHyphen + 1)
   txtRoom.Text = newRoom
End Sub

Private Sub btnCase_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnCase.Click
   Dim newCaseGrade As Integer
   If IsNumeric(txtGrade.Text) Then
      newCaseGrade = CInt(txtGrade.Text)
      Select Case newCaseGrade
            Case 12
               txtCaseGrade.Text = "College"
            Case Else
               txtCaseGrade.Text = "Below Average"
      End Select
   End If
End Sub
Private Sub btnGetNum_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnGetNum.Click
    Dim wName As String, wKlen As Integer
    If txtName.Text = String.Empty Then
        txtNameUntrimmed.Text = "Nothing entered"
    Else
        wName = txtName.Text.Trim()
        txtNameTrim.Text = wName
        txtNameUntrimmed.Text = txtName.Text
        wKlen = wName.Length
        MessageBox.Show(wKlen)
    End If
    If txtName.Text = "" Then
        txtNameTrim.Text = "Nothing in text box"
    End If
End Sub

Private Sub btnGetNum_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnGetNum.Click
    Dim wNumHyphen As Integer, wKLocation As String, wK
    wKLocation = txtLocation.Text
    wKHyphen = wKLocation.IndexOf("-"
    MessageBox.Show(wKHyphen)
    wKRoom = wKLocation.Substring(wKHyphen + 1, 3)
    txtRoom.Text = wKRoom
End Sub

Private Sub btnCase_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnCase.Click
    Dim wCaseGrade As Integer
    If IsNumeric(txtCase.Text) Then
        wCaseGrade = CInt(txtCase.Text)
        Select Case wCaseGrade
        Case Is > 12
            txtCaseGrade.Text = "College"
        End Select
    End If
End Sub