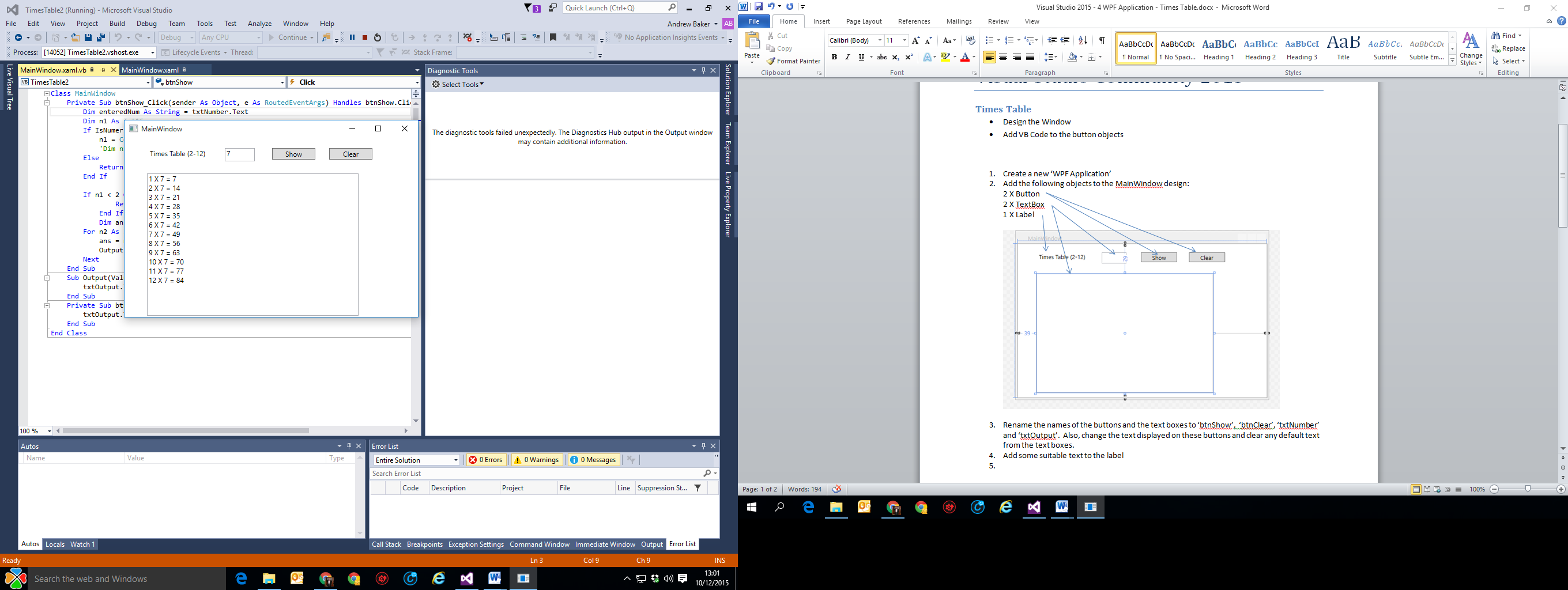
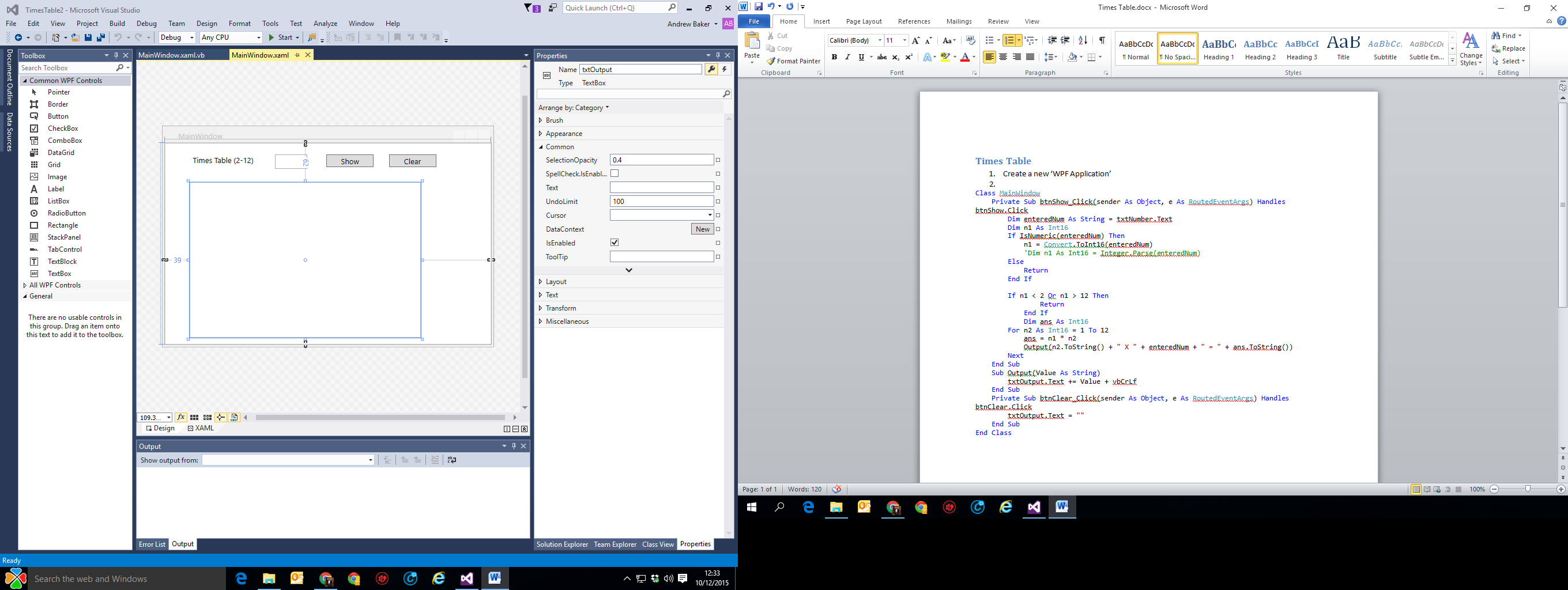
Visual Studio Community 2015

## Times Table

* Design the Window
* Add VB Code to the button objects



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1. Create a new ‘WPF Application’
2. Add the following objects to the MainWindow design:  
   2 X Button  
   2 X TextBox  
   1 X Label  
     
   
3. Rename the names of the buttons and the text boxes to ‘btnShow’, ‘btnClear’, ‘txtNumber’ and ‘txtOutput’. Also, change the text displayed on these buttons and clear any default text from the text boxes.
4. Add some suitable text to the label
5. Select the Clear button then double click it. This will bring up the VB Code window. Add the follow for the clear button:

Private Sub btnClear\_Click(sender As Object, e As RoutedEventArgs) Handles btnClear.Click

txtOutput.Text = ""

End Sub

1. When executed, this will look for a ‘Subroutine/Procedure’ called Output. Create the Subroutine called Output. Place cursor after the ‘End Sub’ of the ‘btnShow’ Sub and press enter. Now type the following:

Sub Output(Value As String)

txtOutput.Text += Value + vbCrLf

End Sub

1. In the btnShow Sub, add the following code:

Private Sub btnShow\_Click(sender As Object, e As RoutedEventArgs) Handles btnShow.Click

Dim enteredNum As String = txtNumber.Text

Dim n1 As Int16 = Convert.ToInt16(enteredNum)

Dim ans As Int16

For n2 As Int16 = 1 To 12

ans = n1 \* n2

Output(n2.ToString() + " X " + enteredNum + " = " + ans.ToString())

Next

End Sub

1. Execute the program with *sensible* data and then try and crash it!
2. Amend the btnShow code to cope with some of the errors:

Private Sub btnShow\_Click(sender As Object, e As RoutedEventArgs) Handles btnShow.Click

Dim enteredNum As String = txtNumber.Text

Dim n1 As Int16

If IsNumeric(enteredNum) Then

n1 = Convert.ToInt16(enteredNum)

Else

Return

End If

If n1 < 2 Or n1 > 12 Then

Return

End If

Dim ans As Int16

For n2 As Int16 = 1 To 12

ans = n1 \* n2

Output(n2.ToString() + " X " + enteredNum + " = " + ans.ToString())

Next

End Sub