

<http://www.utsc.utoronto.ca/~andria/a02w06/lecture/vb/>

Global Variables - General

- * VBP file, VBW file, FRM file

```
Private Sub cmdItem2_Click()
```

```
' Subprogram to process cost of item 2
```

```
Dim cItem2Cost As Currency ' Stores cost for item 2
```

```
' Calculate cost of item 2 and add to total cost
```

```
cItem2Cost = txtItem2.Text * (1 + gfTAX)
```

```
gcTotalCost = gcTotalCost + cItem2Cost
```

```
' Display item 2 cost and clear item 2 text box
```

```
lblItem2.Caption = Format(cItem2Cost, "Currency")
```

```
txtItem2.Text = ""
```

```
End Sub
```

```
Private Sub cmdTotal_Click()
```

```
' Display total of all purchases
```

```
lblTotal.Caption = "Total Cost is " & vbNewLine &  
Format(gcTotalCost, "Currency")
```

```
End Sub
```

Len Function

' Initializes variable.

```
Dim TestString As String = "Hello World"
```

' Returns 11.

```
Dim TestLen As Integer = Len(TestString)
```

LCASE Function

' String to convert.

```
Dim UpperCase As String = "Hello World 1234"
```

' Returns "hello world 1234".

```
Dim LowerCase As String = LCASE(UpperCase)
```

MID Function

' Creates text string.

```
Dim TestString As String = "Mid Function Demo"
```

' Returns "Mid".

```
Dim FirstWord As String = Mid(TestString, 1, 3)
```

' Returns "Demo".

```
Dim LastWord As String = Mid(TestString, 14, 4)
```

' Returns "Function Demo".

```
Dim MidWords As String = Mid(TestString, 5)
```

InStr Function

' String to search in.

```
Dim SearchString As String = "XXpXXpXXPXXP"
```

' Search for "P".

```
Dim SearchChar As String = "P"
```

```
Dim TestPos As Integer
```

' A textual comparison starting at position 4. Returns 6.

```
TestPos = InStr(4, SearchString, SearchChar, CompareMethod.Text)
```

```
TestPos = InStr(4, SearchString, SearchChar, 1)
```

' A binary comparison starting at position 1. Returns 9.

```
TestPos = InStr(1, SearchString, SearchChar, CompareMethod.Binary)
```

```
TestPos = InStr(1, SearchString, SearchChar, CompareMethod.0)
```

' If Option Compare is not set, or set to Binary, return 9.

' If Option Compare is set to Text, returns 3.

```
TestPos = InStr(SearchString, SearchChar)
```

' Returns 0.

```
TestPos = InStr(1, SearchString, "W")
```

```
' Count number of spaces in text box txtInput.
Private Sub cmdSpaces_Click()
    Dim sSent As String      ' store sentence from txtInput
    sSent = txtInput.Text

    Dim iSpaceCount As Integer ' count number of spaces
    iSpaceCount = 0

    ' For loop continues for each character in sSent. If the
    ' next character is a space, add one to iSpaceCount.
    Dim iCount As Integer
    For iCount = 1 To Len(sSent)
        If Mid(sSent, iCount, 1) = " " Then
            iSpaceCount = iSpaceCount + 1
        End If
    Next iCount

    lblOutput.Caption = "Number of spaces: " & iSpaceCount

End Sub
```

' Count number of vowels in text box txtInput.

Private Sub cmdVowels_Click()

Const sVOWELS = "aeiou" ' store all vowels

Dim sSent As String ' store sentence from txtInput

sSent = txtInput.Text

Dim iVowelCount As Integer ' count number of vowels

iVowelCount = 0

' For loop continues for each character in sSent. If the

' next character is a vowel, add one to iVowelCount.

Dim iCount As Integer

For iCount = 1 To Len(sSent)

 If InStr(1, sVOWELS, Mid(sSent, iCount, 1), 1) Then

 iVowelCount = iVowelCount + 1

 End If

Next iCount

lblOutput.Caption = "Number of vowels: " & iVowelCount

End Sub


```
' This subprogram counts how many times the word
' "the" appears in the sentence.
Private Sub cmdThes_Click()
    Dim sSent As String
    sSent = txtInput.Text

    Dim iTheCount As Integer
    iTheCount = 0

    Dim iCount As Integer

    For iCount = 1 To Len(sSent)
        If InStr(1, Mid(sSent, iCount, 3), "the", 1) Then
            iTheCount = iTheCount + 1
        End If
    Next iCount

    lblOutput.Caption = "Number of the's: " & _
    iTheCount

End Sub
```