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## Stream reader / writer

We need to use functions that are stored in a library. The library we need to use is the System.IO library.

To import the library do the following:

Must do before Class (Public Class….) starts

Imports System.IO

Here is an example of using streamWriter to write to a text file:

Dim sw As System.IO.StreamWriter

sw = My.Computer.FileSystem.OpenTextFileWriter("U:\test.txt", True)

sw.WriteLine("Here is the first string.")

sw.Close()

Here is an example of using streamReader to read from a text file:

Dim sr As System.IO.StreamReader

sr = My.Computer.FileSystem.OpenTextFileReader("U:\test.txt")

Dim stringReader As String

stringReader = sr.ReadLine()

MsgBox("The first line of the file is " & stringReader)

## Mid Function

Returns a string containing a specified number of characters from a string.

Mid(String, Start As Integer, Length as integer)

Messagebox.show(Mid(“firstsecondthird”,1,5)) ‘ show the word first

Messagebox.show(Mid(“firstsecondthird”,6,6)) ‘ show the word second

Messagebox.show(Mid(“firstsecondthird”,12,5)) ‘ show the word third

## LSet Function

Returns a left-aligned string containing the specified string, adjusted to the specified length.

LSet(Source As String, Length As Integer)

Dim TestString As String = "Left"

Dim lString As String

' Returns "Left "

lString = LSet(TestString, 10)

' Returns "Le"

lString = LSet(TestString, 2)

' Returns "Left"

lString = LSet(TestString, 4)

## Using Structures to store data

‘The following creates a structure to store data. Similar to creating a group of variables. It should be in the class but outside the subroutines.

Private Structure STORIO

Public STORIOID AS STRING

Public STORIOName AS STRING

Public STORIOSurname AS STRING

Public STORIOPassword AS STRING

End Structure

When the save button is clicked…

Dim STORIOData as new STORIO ‘This creates a new instance of a structure

Dim sw as new System.IO.Streamwriter(“STORIO.txt”,True) ‘This sets up the streamwriter

‘The following fills the structure with data. Each piece of data can contain up to 50 characters

STORIOData.STORIOID = LSet(txtID.text,50)

STORIOData.STORIOName = LSet(txtName.text,50)

STORIOData.STORIOSurname = LSet(txtSurname.text,50)

STORIOData.STORIOPassword = LSet(txtPassword.text,50)

‘now we have to save the structure to the text file using the streamwriter

sw.writeline(STORIOData.STORIOID & STORIOData.STORIOName & STORIOData.STORIOSurname & STORIOData.STORIOPassword)

‘now we have to close the streamwriter

sw.close()

messagebox.show(“File saved!”)

## Instring

' 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)

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

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

' 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")

## Instring ar gyfer gwirio nodau ebost

Private Sub txtGolyguEbostCwsmer\_TextChanged(sender As Object, e As EventArgs) Handles txtGolyguEbostCwsmer.TextChanged

 'Rheol Dilysu

 Dim strAllowedChars As String = "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz1234567890@."

 'Os yw'r manylion a mewnbynnwyd yn bodloni'r nodau rwyf wedi cyfyngu yna derbyn y data

 If Len(txtGolyguEbostCwsmer.Text) = 0 Then

 Exit Sub

 Else

 'Os nad yw'r manylion yn bodloni'r nodau rwyf wedi cyfyngu yna gwrthos y data a dangos neges gwall

 For i = 0 To Len(txtGolyguEbostCwsmer.Text) - 1

 If InStr(1, strAllowedChars, txtGolyguEbostCwsmer.Text(i)) = 0 Then

 MsgBox("Rhaid mewnbynnu e-bost dilys.")

 txtGolyguEbostCwsmer.Focus()

 Exit Sub

 End If

 Next

 End If

 End Sub

## Find a match in a file

 ' Declare variables

 Dim CountGot As Integer = 0

 Dim loaded As Boolean = False

 Dim STORIODataCount As Integer = 0

 'read from file and store in structure "STORIOData"

 Dim STORIOData() As String = File.ReadAllLines("STORIO.txt")

 'loop through each record in data structure from 0 to the upper most record

 For i = 0 To UBound(STORIOData)

 CountGot = 0

 'loop through each record checking to see if the trimmed value in the first 50 characters matches what is in the text box

 'MessageBox.Show(Trim(Mid(STORIOData(i), 1, 50)))

 If Trim(Mid(STORIOData(i), 1, 50)) = txtSearch.Text Then

 CountGot = CountGot + 1

 End If

 'if we've got a match, get the data and show it in the text boxes

 If CountGot > 0 Then

 txtID.Text = Trim(Mid(STORIOData(i), 1, 50))

 txtName.Text = Trim(Mid(STORIOData(i), 51, 50))

 txtSurname.Text = Trim(Mid(STORIOData(i), 101, 50))

 txtPassword.Text = Trim(Mid(STORIOData(i), 151, 50))

 loaded = True

 End If

 Next

 'if no matches are found then display message

 If loaded = False Then

 MsgBox("Methu ffeindio'r ffeil")

 End If

# Gwasgu “enter” i redeg cod

Private Sub txtCyfrinairMewngofnodiStaff\_KeyDown(sender As Object, e As KeyEventArgs) Handles txtCyfrinairMewngofnodiStaff.KeyDown

If e.KeyCode = Keys.Enter Then

 Mewngofnodi()

End If

End Sub