Public Class Form1

Dim d(100, 4), rno, ec 'ec = error code rno = 幾筆資料

Private Sub Form1\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

Call rdata()

For i = 1 To rno

ec = ""

If ec = "" Then Call sp1(i)

If ec = "" Then Call sp2(i)

If ec = "" Then Call sp3(i)

d(i, 4) = ec

Next

Call wdata()

End Sub

Private Sub btn\_01\_Click(sender As Object, e As EventArgs) Handles Button1.Click

Dim h(3), w(3), bmi(3), s\_bmi

FileOpen(1, "C:\丙設資料\1060304.SM", OpenMode.Input)

For i = 1 To 3

Input(1, h(i)) : Input(1, w(i))

bmi(i) = w(i) / (h(i) / 100) ^ 2

Next

FileClose(1)

s\_bmi = bmi(1)

For i = 1 To 3

If bmi(i) < s\_bmi Then

s\_bmi = bmi(i)

End If

Next

Dim s\_bmi45 As Integer = s\_bmi

If s\_bmi45 >= 20 And s\_bmi45 <= 25 Then

text\_01.Text = "第四題結果：最小BMI值=" & s\_bmi45 & "，正常"

Else

text\_01.Text = "第四題結果：最小BMI值=" & s\_bmi45 & "，不正常"

End If

End Sub

Sub rdata()

FileOpen(1, "C:\丙設資料\1060306.sm", OpenMode.Input)

rno = 0

Do While Not EOF(1)

rno = rno + 1

For j = 1 To 3

Input(1, d(rno, j))

Next

Loop

FileClose(1)

End Sub

Sub sp1(ByVal i)

Dim idno = d(i, 1)

Dim m1 = Len(idno)

If m1 <> 10 Then '<>是!=

ec = "FORMAT ERROR"

End If

Dim m2 = Mid(idno, 1, 1)

If m2 < "A" Or m2 > "Z" Then

ec = "FORMAT ERROR"

End If

For j = 2 To 10

Dim m3 = Mid(idno, j, 1)

If m3 < "0" Or m3 > "9" Then

ec = "FORMAT ERROR"

End If

Next

End Sub

Sub sp2(ByVal i)

Dim sex12 = Mid(d(i, 1), 2, 1)

Dim sexMF = d(i, 3)

Dim msex = sex12 & sexMF

If msex <> "1M" And msex <> "2F" Then

ec = "SEX CODE ERROR"

End If

End Sub

Sub sp3(ByVal i)

Dim L1 = Mid(d(i, 1), 1, 1)

Dim S26 = "ABCDEFGHJKLMNPQRSTUVXYWZIO"

Dim m1 = InStr(S26, L1) + 9

Dim x1 = m1 \ 10

Dim x2 = m1 Mod 10

Dim a(9)

For j = 2 To 10

a(j - 1) = Mid(d(i, 1), j, 1)

Next

Dim y = x1 + 9 \* x2

For j = 1 To 8

y = y + (9 - j) \* a(j)

Next

y = y + a(9)

If y Mod 10 <> 0 Then ec = "CHECK SUM ERROR"

End Sub

Sub wdata()

Dim dt As New DataTable

dt.Columns.Add("ID\_NO")

dt.Columns.Add("NAME")

dt.Columns.Add("SEX")

dt.Columns.Add("ERROR")

For i = 1 To rno

Dim dr As DataRow = dt.NewRow

dr(0) = d(i, 1)

dr(1) = d(i, 2)

dr(2) = d(i, 3)

dr(3) = d(i, 4)

dt.Rows.Add(dr)

Next

dgv.DataSource = dt

dgv.Sort(dgv.Columns(0), 0)

End Sub

End Class