

2.4.7 VB6-407 鬧鐘

程式碼：

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Dim SecondOrder(2) '宣告秒序陣列
Dim NewHr(2)       '宣告時陣列,最新值
Dim NewMin(2)     '宣告分陣列,最新值
Dim NewSec(2)     '宣告秒陣列,最新值
Dim NewEvent(2)   '宣告事陣列,最新值
Dim LastHr(2)     '宣告時陣列,上次值
Dim LastMin(2)    '宣告分陣列,上次值
Dim LastSec(2)    '宣告秒陣列,上次值
Dim N, I, J, K    '指標
Dim SwapA, SwapB, Temp '交換暫存值
Dim CurrentOrder '現行秒序
Dim CurrentHr    '現行時間之時值
Dim CurrentMin   '現行時間之分值
Dim CurrentSec   '現行時間之秒值

Private Sub cmdEnd_Click()
    End '結束程式執行
End Sub

Private Sub Form_Load()
    Timer1.Enabled = False '關閉計時器
End Sub

Private Sub cmdStart_Click()
    lblTime.Caption = Time$ '顯示現在時間
    DoEvents '整理畫面
    Timer1.Enabled = True '起動計時器
End Sub

Private Sub cmdSure_Click()
    '以下為:將畫面上輸入值放入變數
    For I = 0 To 2
        LastHr(I) = Val(txtHr(I).Text) '時
        NewHr(I) = Val(txtHr(I).Text)
        LastMin(I) = Val(txtMin(I).Text) '分
        NewMin(I) = Val(txtMin(I).Text)
        LastSec(I) = Val(txtSec(I).Text) '秒
        NewSec(I) = Val(txtSec(I).Text)
        NewEvent(I) = txtEvent(I)      '事件內容
    '以上為:將畫面上輸入值放入變數
    SecondOrder(I) = (NewHr(I) * 60 + NewMin(I)) * 60 + NewSec(I) '取得秒序
    Next I
    For K = 1 To 3 - 1 '排大小
        For N = 1 To 3 - K
            J = N - 1
            If SecondOrder(J) > SecondOrder(J + 1) Then
                Call SwapRtn(SecondOrder(J), SecondOrder(J + 1))
            End If
        Next N
    Next K
End Sub
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        Call SwapRtn(NewHr(J), NewHr(J + 1))
        Call SwapRtn(NewMin(J), NewMin(J + 1))
        Call SwapRtn(NewSec(J), NewSec(J + 1))
        Call SwapRtn(NewEvent(J), NewEvent(J + 1))
    End If
Next N
Next K
For I = 0 To 2 '排大小後重新顯示,且使 Last 與 New 資料一致
    txtHr(I).Text = NewHr(I)
    txtMin(I).Text = NewMin(I)
    txtSec(I).Text = NewSec(I)
    LastHr(I) = NewHr(I)
    LastMin(I) = NewMin(I)
    LastSec(I) = NewSec(I)
    txtEvent(I) = NewEvent(I)
Next I
DoEvents '整理畫面
End Sub

Private Sub SwapRtn(SwapA, SwapB) '將 SwapA 與 SwapB 值交換
    Temp = SwapA
    SwapA = SwapB
    SwapB = Temp
End Sub

Private Sub Timer1_Timer()
    lblTime.Caption = Time$ '顯示現在時間
    DoEvents '整理畫面
    CurrentHr = Val(Mid(lblTime.Caption, 1, 2)) '取得畫面上顯示時間之時
    CurrentMin = Val(Mid(lblTime.Caption, 4, 2)) '取得畫面上顯示時間之分
    CurrentSec = Val(Mid(lblTime.Caption, 7, 2)) '取得畫面上顯示時間之秒
    '將上述之時分秒變為秒數
    CurrentOrder = (CurrentHr * 60 + CurrentMin) * 60 + CurrentSec
    For I = 0 To 2
        If CurrentOrder = SecondOrder(I) Then
            '如果有一事件之時間秒數與現在時間秒數相同時,則出現下車訊息框
            MsgBox NewEvent(I), vbOKOnly, "看這裏,重要喔!"
            Exit For '強迫離開
        End If
    Next I
End Sub

Private Sub txtHr_LostFocus(Index As Integer) '當游標離開 txtHr 時
    NewHr(Index) = Val(txtHr(Index).Text) 'NewHr = txtHr
    If NewHr(Index) < 0 Or NewHr(Index) > 23 Then '如果 NewHr 之值,小於 0 或大於 23
        txtHr(Index).Text = Trim(Str(LastHr(Index))) '畫面還原成未改值
        NewHr(Index) = LastHr(Index) '在合理範圍內,未改值一併改為 txtHr
    Else
        LastHr(Index) = NewHr(Index) '在合理範圍內,未改值一併改為 txtHr
    End If
End Sub

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Private Sub txtMin_LostFocus(Index As Integer) '同 當游標離開 txtHr 時
    NewMin(Index) = Val(txtMin(Index).Text)
    If NewMin(Index) < 0 Or NewMin(Index) > 59 Then
        txtMin(Index).Text = Trim(Str>LastMin(Index)))
        NewMin(Index) = LastMin(Index)
    Else
        LastMin(Index) = NewMin(Index)
    End If
End Sub

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Private Sub txtSec_LostFocus(Index As Integer) '同 當游標離開 txtHr 時
    NewSec(Index) = Val(txtSec(Index).Text)
    If NewSec(Index) < 0 Or NewSec(Index) > 59 Then
        txtSec(Index).Text = Trim(Str>LastSec(Index)))
        NewSec(Index) = LastSec(Index)
    Else
        LastSec(Index) = NewSec(Index)
    End If
End Sub

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參考畫面：



圖 2.4.7.1、參考畫面：VB6-407 鬧鐘(設定記事本項目)



圖 2.4.7.2、參考畫面：VB6-407 鬧鐘(按"確定"鈕，排序後，依序重新顯示)



圖 2.4.7.3、參考畫面：VB6-407 鬧鐘(按”開始”鈕，開始顯示時間)



圖 2.4.7.4、參考畫面：VB6-407 鬧鐘(到達指定事項時間即出現訊息框)