DEMAS: Degree Management System A Program to Aid Advisors and Students in Class Selection and Schedule Planning

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DEMASEM: DEgree MANagement System
A Program to Aid Advisors and Students in Class Selection and Schedule Planning

Do you often find yourself dreading the time when the beginning of another semester
looms larger-than life over your head? Do you shudder at the thought of having to plan out next
semester's class schedule, whether it is for yourself if you are a student, or for your advisees if you
are an advisor? Think of all those documents and booklets strewn across your desk—the
necessary ones, the "should haves" and the "Oh, how I wish we did haves" that simply do not
exist (yet)?

Picture yourself with a College Catalog, with its myriad of interesting details and complex
contrains on various fields of study. Or consider looking through a student RAP sheet (Report of
Academic Progress) and transcript, chock full of information that is almost useless unless you take
the time to put it all together. And, of course, you must also have next semester's schedule if you
want to get something tangible out of this little session. By now, your desk is full and we have
barely scratched the surface of what is necessary in order to be really successful at degree
management (a fancy way of saying schedule planning). For freshmen, it would be nice to point
out the location of each classroom needed on a simple map or picture of the building. And what
about the student who would like to know a little bit more about a teacher who is totally
unknown to him or her, and also to you? What do you say to this student?

Of course, if you really want to help yourself in this process, you must be intimately
familiar with the ever-changing requirements for each and every major and minor field that will be
involved, as well as any special programs included (such as Southern Scholars). This can render
the usually helpful RAP sheet nearly useless, since it does very little to combine requirements in
any way at all.

This is where DEMASEM steps in to help you. With its basic functionality and seemingly
unlimited expandability, it can meet the needs of your program wherever you may be in the jungle
of time and money shuffles. A brief overview of the major features, organized in the same order
as the buttons on the toolbar at startup, will more than convince you that DEMASEM was meant
for you.

1. First of all, DEMASEM makes every effort to be intuitive and easy to use. As soon as you
launch the program, you are given a list of student names and other options to pick from.
You simply click the mouse on the student you are interested in and your electronic
degree manager will pull up all the relevant information and display it in a neat, organized
fashion.

2. If you really do not want to mess with the computer but would like a computer generated
report for yourself or someone else, you can simply click on the printer icon or choose
File/Print on the main menu and your job is done.

3. Getting away is not hard either--DEMASEM lets you exit painlessly and quickly with its
easy-access toolbar exit button.

4. DEMAST™ guides you through the necessary steps, but lets you take your own detour if you want to. A good example is what happens once you pick a student's name or another option from the opening dialog box. If the student already has a record, you are whisked directly to the Transcript instead of having to slog through another tour through never-never land. However, if this is a new student, you are automatically put into the right dialog box you need to be in to enter this new student's data.

5. Admissions information is easy to fill out, and may already be filled out for you, only available for your viewing convenience. This includes standard information like standing and ACT scores as well as a high school transfer.

6. Dealing with a variety of fields of study is where DEMAST™ shines, since it is specifically designed for people who are widening their academic horizons. It lets you "add" or "drop" almost any degree offered.

7. The all-important transcript is also taken care of by this efficient, friendly system, including those special cases that always seem to show up at the World's Worth did they did.

8. The crown jewel of DEMAST™ is a box that integrates the requirements for whatever major/minors the student may have and categorizes them according to their feasibility.

9. Scheduling, that all-important part of planning, will be handled by the special on-screen, easy-to-use scheduler in the next version of DEMAST™. This will allow students to try different schedule arrangement easily and still fulfill all their requirements.

As its author, I naturally have many hopes for DEMAST™ in the future. I would like to port it over from Microsoft VisualBasic for Windows 3.00 to Delphi 1.0, Borland's newest database application development package. The scheduler will definitely be a part of the next released version, as will a more streamlined system for integrating the requirements of various majors (at the present time they are thrown together less than ideally). This project is far from finished, but it has arrived at the point in its life cycle where it is ready to get some real work accomplished.
DEMAS:
DEgree MAnagement System
Version 1.00
Microsoft Visual Basic for Windows 3.00
ABOUT.FRM - 1

VERSION 2.00

Begin Form About

BorderStyle = 3 'Fixed Double
Caption = "About DEMAS"
ClientHeight = 2412
ClientLeft = 1008
ClientTop = 1512
ClientWidth = 5640
ClipControls = 0 'False
FontBold = -1 'True
FontItalic = 0 'False
FontName = "System"
FontSize = 9.6
FontStrikeThru = 0 'False
FontUnderline = 0 'False
Height = 2832
Icon = (Icon)
Left = 960
LinkMode = 1 'Source
LinkTopic = "Form2"
MaxButton = 0 'False
MinButton = 0 'False
ScaleHeight = 2412
ScaleWidth = 5640
Top = 1140
Width = 5736

Begin PictureBox PicApplicationIcon
AutoSize = -1 'True
BorderStyle = 0 'None
Height = 384
Left = 255
Picture = (Icon)
ScaleHeight = 384
ScaleWidth = 384
TabIndex = 4
Top = 255
Width = 384
End

Begin CommandButton CmdOK
Caption = "OK"
FontBold = -1 'True
FontItalic = 0 'False
FontName = "System"
FontSize = 9.6
FontStrikeThru = 0 'False
FontUnderline = 0 'False
Height = 360
Left = 4350
TabIndex = 6
Top = 1920
Width = 1035
End

Begin Label LblDegManSys
Caption = "Degree Management System"
FontBold = -1 'True
FontItalic = 0 'False
FontName = "MS Sans Serif"
FontSize = 9.6
FontStrikeThru = 0 'False
FontUnderline = 0 'False
Height = 255
Left = 1320
TabIndex = 7
Top = 720
Width = 3135
End

Begin Line linHorizontalLine1
BorderWidth = 2
X1 = 975
X2 = 5010
Y1 = 1560
Y2 = 1560
End

Begin Label LblDEMAS
Caption = "DEMAS:"
FontBold = -1 'True
FontItalic = 0 'False
FontName = "MS Sans Serif"
FontSize = 18
FontStrikethru = 0 'False
FontUnderline = 0 'False
Height = 450
Left = 960
TabIndex = 1
Top = 240
Width = 1455

End

Begin Label LblVersion
Caption = "Version 1.00"
FontBold = -1 'True
FontItalic = 0 'False
FontName = "MS Sans Serif"
FontSize = 9.6
FontStrikethru = 0 'False
FontUnderline = 0 'False
Height = 240
Left = 990
TabIndex = 2
Top = 1080
Width = 1470

End

Begin Label LblMicrosoft
Caption = "Microsoft Visual Basic for Windows 3.00"
FontBold = -1 'True
FontItalic = 0 'False
FontName = "MS Sans Serif"
FontSize = 9.6
FontStrikethru = 0 'False
FontUnderline = 0 'False
Height = 240
Left = 960
TabIndex = 3
Top = 1320
Width = 4365

End

Begin Label LblInfo
Height = 600
Left = 1005
TabIndex = 5
Top = 1665
Width = 1875

End

Begin Label LblInfoValues
Height = 600
Left = 2910
TabIndex = 0
Top = 1665
Width = 1410

End

End
Option Explicit
DefInt A-Z
Declare Function GetFreeSpace Lib "Kernel" (ByVal wFlags) As Long
Declare Function GetWinFlags Lib "Kernel" () As Long
Const WFSTANDARD = &H10
Const WFENHANCED = &H20
Const WF80x87 = &H400

Sub CmdOK_Click()
Unload About
End Sub

Sub Form_Load()
Dim WinFlags As Long
Dim Mode As String, Processor As String
' Define CRLF
CRLF = Chr$(13) + Chr$(10)
' Dialog Boxes should only have Move and Close items
' in their System menus', so remove the others.
RemoveItemsFromSystemMenu About
' Center the About on the screen
Move (Screen.Width - Width) \\ 2, (Screen.Height - Height) \\ 2
' Get current Windows configuration
WinFlags = GetWinFlags()
If WinFlags And WFENHANCED Then Mode = "386 Enhanced Mode" Else Mode = "Standard Mode"
LblInfo.Caption = Mode + CRLF + "Free Memory:" + CRLF + "Math Co-processor:"
If WinFlags And WF80x87 Then Processor = "Present" Else Processor = "None"
LblInfoValues.Caption = CRLF + Format$(GetFreeSpace(0) \ 1024) + " KB" + CRLF + Processor
End Sub
'Global options (explicit declaration, base 0, not case-sensitive)
Option Explicit
Option Base 0
Option Compare Text

'Character names
Global BkSp As String * 1
Global HTab As String * 1

'Paths & filenames
Global Const FilePath$ = "C:\HONORS"
Global Const ClassFileName$ = "CLASSES.LST"
Global Const DegreeFileName$ = "DEGREES.LST"
Global Const FieldFileName$ = "FIELDS.LST"
Global Const StandingFileName$ = "STANDING.LST"
Global Const TermFileName$ = "TERMS.LST"

'Maxima
Global Const MaxClasses% = 100
Global Const MaxClassesTaken% = 50
Global Const MaxDegrees% = 8
Global Const MaxFields% = 30
Global Const MaxFieldsTaken% = 5
Global Const MaxNameLen% = 16
Global Const MaxPrereq% = 3
Global Const MaxStandings% = 4
Global Const MaxTerms = 6

'Sizes
Global Const PasswordLen% = 3
Global Const IDLen% = 5

Type ACTRecord
  Composite As Integer
  CompositeP As Integer
  English As Integer
  EnglishP As Integer
  Math As Integer
  MathP As Integer
  Reading As Integer
  ReadingP As Integer
  Science As Integer
  ScienceP As Integer
End Type

Type HSRecord
  Total As Integer
  English As Integer
  Algebra As Integer
  Geometry As Integer
  Biology As Integer
  WorldHistory As Integer
  Bible As Integer
  Other As Integer
End Type

Type PrereqRecord
  Either As Integer
  Code As String * 7
End Type

Type FieldTakenRecord
  Degree As String * 2
  Field As String * 2
End Type

Type ClassTakenRecord
  Code As String * 7
  Term As Integer
  Year As Integer
  Grade As String * 2
End Type

Type StudentInfoRecord
ID As String * IDLen
Password As String * PasswordLen
First As String * MaxNamesLen
Middle As String * MaxNameLen
Last As String * MaxNameLen
Sex As String * 1
Standing As String * 1
ACT As ACTRecord
HS As HSRecord
Degree As String * 2
Fields As Integer
Field(MaxFieldsTaken) As FieldTakenRecord
Classes As Integer
Class(MaxClasses) As ClassTakenRecord
End Type

Type ClassRecord
Code As String * 7
Type As String * 1
Name As String * 32
Hours As Integer
Term As String * 1
Years As String * 1
Prereqs As Integer
Prereq(MaxPrereq) As PrereqRecord
End Type

Type FieldRecord
Code As String * 4
Name As String * 32
End Type

Type StandingRecord
Code As String * 1
Name As String * 32
End Type

Type TermRecord
Name As String * 32
End Type

'Current student's info record
Global Student As StudentInfoRecord

'Global info on classes, etc.
Global Class() As ClassRecord
Global Degree As FieldRecord
Global Field() As FieldRecord
Global Standing() As StandingRecord
Global Term() As TermRecord

Global TotalClasses As Integer
Global TotalFields As Integer
Global TotalStandings As Integer
Global TotalTerms As Integer

Global CurrID As Integer
Global NewStudent As Integer

Sub DisableAdmiss()
    DEMAS.MnuAdmiss.Enabled = False
    DEMAS.ToolAdmiss.Enabled = False
    DEMAS.ToolAdmiss.Visible = False
End Sub

Sub DisableAll()
    DisableInfo
    DisableAdmiss
    DisableFields
    DisableTrans
    DisableReq
    DisableSched
End Sub
Sub DisableFields ()
    DEMAS.MnuFields.Enabled = False
    DEMAS.ToolFields.Enabled = False
    DEMAS.ToolFields.Visible = False
End Sub

Sub DisableInfo ()
    DEMAS.MnuInfo.Enabled = False
    DEMAS.ToolInfo.Enabled = False
    DEMAS.ToolInfo.Visible = False
End Sub

Sub DisableReq ()
    DEMAS.MnuReq.Enabled = False
    DEMAS.ToolReq.Enabled = False
    DEMAS.ToolReq.Visible = False
End Sub

Sub DisableSched ()
    DEMAS.MnuSched.Enabled = False
    DEMAS.ToolSched.Enabled = False
    DEMAS.ToolSched.Visible = False
End Sub

Sub DisableTrans ()
    DEMAS.MnuTrans.Enabled = False
    DEMAS.ToolTrans.Enabled = False
    DEMAS.ToolTrans.Visible = False
End Sub

Sub EnableAdmiss ()
    DEMAS.MnuAdmiss.Enabled = True
    DEMAS.ToolAdmiss.Enabled = True
    DEMAS.ToolAdmiss.Visible = True
End Sub

Sub EnableAll ()
    EnableInfo
    EnableAdmiss
    EnableFields
    EnableTrans
    EnableReq
    EnableSched
End Sub

Sub EnableFields ()
    DEMAS.MnuFields.Enabled = True
    DEMAS.ToolFields.Enabled = True
    DEMAS.ToolFields.Visible = True
End Sub

Sub EnableInfo ()
    DEMAS.MnuInfo.Enabled = True
    DEMAS.ToolInfo.Enabled = True
    DEMAS.ToolInfo.Visible = True
End Sub

Sub EnableReq ()
    DEMAS.MnuReq.Enabled = True
    DEMAS.ToolReq.Enabled = True
    DEMAS.ToolReq.Visible = True
End Sub

Sub EnableSched ()
    DEMAS.MnuSched.Enabled = True
    DEMAS.ToolSched.Enabled = True
    DEMAS.ToolSched.Visible = True
End Sub

Sub EnableTrans ()
    DEMAS.MnuTrans.Enabled = True
    DEMAS.ToolTrans.Enabled = True
    DEMAS.ToolTrans.Visible = True
End Sub

Sub RemoveItemsFromSystemMenu (AForm As Form)
' Removes various menu items from the System menu of the specified Form.
' Obtain the handle to the forms System menu
    Dim HSysMenu
    Dim R
    HSysMenu = GetSystemMenu(AForm hWnd, 0)
    ' Remove all but the MOVE and CLOSE options. The menu items
    ' must be removed starting with the last menu item.
    R = RemoveMenu(HSysMenu, 8, MF_BYPOSITION) 'Switch to
    R = RemoveMenu(HSysMenu, 7, MF_BYPOSITION) 'Separator
    R = RemoveMenu(HSysMenu, 5, MF_BYPOSITION) 'Separator
End Sub

Sub SelectAll ()
    Dim ActCtl As Control
    Screen.ActiveControl.SelStart = 0
    Screen.ActiveControl.SelLength = Len(Screen.ActiveControl.Text)
End Sub

Function ValidDigit (KeyAscii As Integer) As Integer
    If (KeyAscii >= Asc("0") And KeyAscii <= Asc("9")) Or KeyAscii = Asc(BkSp) Then
        ValidDigit = KeyAscii
    Else
        ValidDigit = 0
        Beep
    End If
End Function
DEMAS.FRM - 1

VERSION 2.00
Begin MDIForm DEMAS
Caption = "DEMAS"
ClientHeight = 2904
ClientLeft = 1032
ClientTop = 1692
ClientWidth = 5424
Height = 3648
Icon = (Icon)
Left = 984
LinkTopic = "MDIForm1"
ScrollBars = 0 'False
Top = 996
Width = 5520
WindowState = 2, 'Maximized
Begin PictureBox PicToolbar
  Align = 1 'Align Top
  BackColor = &H00C0C0C0&
  Height = 492
  Left = 0
  ScaleHeight = 468
  ScaleWidth = 5400
  TabIndex = 0
  Top = 0
  Width = 5424
Begin Image ToolGet
  Height = 384
  Left = 0
  Picture = (Icon)
  Top = 0
  Width = 384
End
Begin Image ToolPrint
  Height = 384
  Left = 480
  Picture = (Icon)
  Top = 0
  Width = 384
End
Begin Image ToolAdmiss
  Height = 384
  Left = 2400
  Picture = (Icon)
  Top = 0
  Width = 384
End
Begin Image ToolExit
  DragIcon = (Icon)
  Height = 384
  Left = 960
  Picture = (Icon)
  Top = 0
  Width = 384
End
Begin Image ToolSched
  Height = 384
  Left = 4320
  Picture = (Icon)
  Top = 0
  Width = 384
End
Begin Image ToolTrans
  Height = 384
  Left = 3360
  Picture = (Icon)
  Top = 0
  Width = 384
End
Begin Image ToolReq
  Height = 384
  Left = 3840
  Picture = (Icon)
  Top = 0
  Width = 384
End
End
Begin Image ToolFields
  Height   = 384
  Left     = 2880
  Picture  = (Icon)
  Top      = 0
  Width    = 384
End
Begin Image ToolInfo
  Height   = 384
  Left     = 1920
  Picture  = (Icon)
  Top      = 0
  Width    = 384
End

Begin Menu MnuFile
  Caption = "&File"
Begin Menu MnuGet
  Caption = "&Get Student File"
End
Begin Menu MnuPrint
  Caption = "&Print Student File"
End
Begin Menu MnuFileSeparator
  Caption = "_"
End
Begin Menu MnuExit
  Caption = "E&xit DEMAS"
End
End

Begin Menu MnuView
  Caption = "&View"
Begin Menu MnuInfo
  Caption = "Student &Info"
End
Begin Menu MnuAdmis
  Caption = "&Admissions Info"
End
Begin Menu MnuFields
  Caption = "&Fields of Study"
End
Begin Menu MnuReq
  Caption = "&Requirements"
End
Begin Menu MnuTrans
  Caption = "&Transcript"
End
Begin Menu MnuSched
  Caption = "Class &Schedule"
End
End

Begin Menu MnuHelp
  Caption = "&Help"
Begin Menu MnuAbout
  Caption = "&About DEMAS"
End
End
End
Explicit

Function ReallyDoThis (ByVal Message As String) As Integer
    Beep
    If MsgBox("Are you sure you really want to " & Message & ") = IDNO Then
        ReallyDoThis = False
    Else
        ReallyDoThis = True
    End If
End Function

Sub MDIForm_Activate()
    'Maximize the window
    WindowState = 2
End Sub

Sub MDIForm_Load()
    'Character names
    BkSp = Chr(8)
    HTab = Chr(9)
    GetFile.Show
End Sub

Sub MDIForm_QueryUnload(Cancel As Integer, UnloadMode As Integer)
    If Not ReallyDoThis("leave DEMAS, accepting whatever changes you have made to this student's record") Then Cancel = True
End Sub

Sub MnuAbout_Click()
    About.Show 1
    About.WindowsState = 0
End Sub

Sub MnuAdmiss_Click()
    If Not ReallyDoThis("accept all changes you have made to this student's records and change this student's admissions information") Then Exit Sub
    Admiss.Show
End Sub

Sub MnuExit_Click()
    Unload DEMAS
End Sub

Sub MnuFields_Click()
    If Not ReallyDoThis("accept all changes you have made to this student's records and change this student's current fields of study") Then Exit Sub
    FieldsStudy.Show
End Sub

Sub MnuGet_Click()
    If Not ReallyDoThis("start working with a new student") Then Exit Sub
    GetFile.Show
End Sub

Sub MnuInfo_Click()
    If Not ReallyDoThis("accept all changes you have made to this student's records and change this student's basic information") Then Exit Sub
    Info.Show
End Sub

Sub MnuPrint_Click()
    MsgBox "Printing is not currently supported", MB_OK + MB_ICONSTOP, "DEMAS"
End Sub

Sub MnuReq_Click()
    If Not ReallyDoThis("accept all changes you have made to this student's records") Then Exit Sub
    Req.Show
End Sub
Sub MnuSched_Click()
    If Not ReallyDoThis("accept all changes you have made to this student's records and work on their schedule") Then Exit Sub
    Sched.Show
End Sub

Sub MnuTrans_Click()
    If Not ReallyDoThis("accept all changes you have made to this student's records and work on his student's transcript") Then Exit Sub
    Trans.Show
End Sub

Sub ToolAdmiss_Click()
    MnuAdmiss_Click
End Sub

Sub ToolExit_Click()
    MnuExit_Click
End Sub

Sub ToolFields_Click()
    MnuFields_Click
End Sub

Sub ToolGet_Click()
    MnuGet_Click
End Sub

Sub ToolInfo_Click()
    MnuInfo_Click
End Sub

Sub ToolPrint_Click()
    MnuPrint_Click
End Sub

Sub ToolReq_Click()
    MnuReq_Click
End Sub

Sub ToolSched_Click()
    MnuSched_Click
End Sub

Sub ToolTrans_Click()
    MnuTrans_Click
End Sub
GETFILE.FRM - 1

VERSION 2.00

Begin Form GetFile

BorderStyle = 1 'Fixed Single
Caption = "Get Student File"
ClientHeight = 3864
ClientLeft = 1308
ClientTop = 1512
ClientWidth = 3732
ClipControls = 0 'False
ControlBox = 0 'False
Height = 4284
Icon = (Icon)
Left = 1260
LinkTopic = "Forml"
MaxButton = 0 'False
MDIChild = -1 'True
MinButton = 0 'False
ScaleHeight = 3864
ScaleWidth = 3732
Top = 1140
Width = 3828

Begin ListBox LstName

Height = 2712
Left = 120
TabIndex = 1
Top = 360
Width = 2172

End

Begin CommandButton CmdDelete

Caption = "&Delete"
Height = 375
Left = 2520
TabIndex = 8
Top = 1560
Width = 1095

End

Begin CommandButton CmdEdit

Caption = "&Edit"
Height = 375
Left = 2520
TabIndex = 7
Top = 960
Width = 1095

End

Begin TextBox TxtID

Height = 285
Left = 120
TabIndex = 3
TabStop = 0 'False
Top = 3480
Width = 855

End

Begin CommandButton CmdNew

Caption = "&New"
Height = 375
Left = 2520
TabIndex = 6
Top = 360
Width = 1095

End

Begin TextBox TxtPassword

Height = 285
Left = 1200
PasswordChar = "*"
TabIndex = 5
Top = 3480
Width = 1095

End

Begin CommandButton CmdCancel

Cancel = -1 'True
Caption = "Cancel"
Height = 375
Left = 2520
TabIndex = 9

End
Top = 2760
Width = 1095

Begin CommandButton CmdOK
Caption = "OK"
Default = -1 'True
Height = 375
Left = 2520
TabIndex = 10
Top = 3360
Width = 1095

End

Begin Data DataStudent
Caption = "Student Data"
Connect = ""
DatabaseName = "C:\HONORS\DATA\DEMAS.MDB"
Exclusive = 0 'False
Height = 270
Left = 960
Options = 0
ReadOnly = 0 'False
RecordSource = "SELECT * FROM Student ORDER BY LastName, FirstName"
Top = 0
Visible = 0 'False
Width = 2775

End

Begin Label LblStudents
Caption = "&Student:
Height = 255
Left = 120
TabIndex = 0
Top = 120
Width = 1095

End

Begin Label LblPassword
Caption = "&Password:
Height = 255
Left = 1200
TabIndex = 4
Top = 3240
Width = 855

End

Begin Label LblID
Caption = "&ID:
Height = 255
Left = 120
TabIndex = 2
Top = 3240
Width = 255

End

End
Option Explicit

Sub ListNames()
    DataStudent.RecordSource = "SELECT * FROM Student ORDER BY LastName, FirstName"
    DataStudent.Refresh
    Do Until (DataStudent.Recordset.EOF)
        LstName.AddItem DataStudent.Recordset!LastName & ", " & DataStudent.Recordset!FirstName
        LstName.ItemData(LstName.ListCount - 1) = DataStudent.Recordset!ID
        DataStudent.Recordset.MoveNext
    Loop
End Sub

Function PasswordOK(ByVal Password As String) As Integer
    If Password <> DataStudent.Recordset!Password Then
        Beep
        MsgBox "Incorrect password!", MB_OK + MB_ICONSTOP, "DEMAS"
        PasswordOK = False
    Else
        PasswordOK = True
    End If
End Function

Sub CmdCancel_Click()
    Unload GetFile
End Sub

Sub CmdDelete_Click()
    If Not PasswordOK(TxtPassword.Text) Then Exit Sub
    If MsgBox("Do you really want to delete " & DataStudent.Recordset!FirstName & " " & DataStudent.Recordset!LastName & ", " & DataStudent.Recordset!ID, MB_YESNO + MB_ICONSTOP, "DEMAS") = IDNO Then
        Beep
        Exit Sub
    End If
    DataStudent.RecordSource = "SELECT * FROM Student WHERE ID = " & TxtID.Text
    DataStudent.Refresh
    DataStudent.Recordset.Delete
    LstName.Clear
End Sub

Sub CmdEdit_Click()
    If Not NewStudent Then If Not PasswordOK(TxtPassword) Then Exit Sub
    Unload GetFile
    Info.Show
End Sub

Sub CmdNew_Click()
    NewStudent = True
    CmdEdit_Click
End Sub

Sub CmdOK_Click()
    If Not PasswordOK(TxtPassword) Then Exit Sub
    EnableAll
    Unload GetFile
    Trans.Show
End Sub

Sub Form_Load()
    NewStudent = False
    ListNames
    LstName.ListIndex = 0
End Sub

Sub LstName_Click()
    CurrID = LstName.ItemData(LstName.ListIndex)
    TxtID = Str$(CurrID)
    TxtPassword.Text = ""
    DataStudent.RecordSource = "SELECT * FROM Student WHERE ID = " & Str$(CurrID)
    DataStudent.Refresh
End Sub

Sub TxtPassword_GotFocus()
    SelectAll
End Sub
INFO.FRM - 1

VERSION 2.00
Begin Form Info
BorderStyle = 1 'Fixed Single
Caption = "Student Info"
ClientHeight = 2772
ClientLeft = 1380
ClientTop = 1500
ClientWidth = 4452
ClipControls = 0 'False
ControlBox = 0 'False
Height = 3192
Icon = (Icon)
Left = 1332
LinkTopic = "Form1"
MaxButton = 0 'False
MDIChild = -1 'True
MinButton = 0 'False
ScaleHeight = 2772
ScaleWidth = 4452
Top = 1128
Width = 4548

Begin Data DataStudent
Caption = "Student Data"
Connect = ""
DatabaseName = "C:\HONORS\DATA\DEMAS.MDB"
Exclusive = 0 'False
Height = 270
Left = 2040
Options = 0
ReadOnly = 0 'False
RecordSource = "student"
Top = 0
Visible = 0 'False
Width = 2415
End

Begin CommandButton CmdOK
Caption = "OK"
Default = -1 'True
Height = 495
Left = 2520
TabIndex = 15
Top = 2160
Width = 1335
End

Begin CommandButton CmdCancel
Cancel = -1 'True
Caption = "Cancel"
Height = 495
Left = 600
TabIndex = 14
Top = 2160
Width = 1335
End

Begin Frame FrmStudent
Caption = "Student"
Height = 1935
Left = 120
TabIndex = 0
Top = 120
Width = 4215

Begin TextBox TxtPassword
DataField = "Password"
DataSource = "DataStudent"
Height = 285
Left = 2520
PasswordChar = "*
TabIndex = 4
Top = 360
Width = 1575
End

Begin TextBox TxtID
DataField = "ID"
DataSource = "DataStudent"
Height = 285

Begin Label LblID
  Caption = "&ID:
  Height = 255
  Left = 120
  TabIndex = 1
  Top = 360
  Width = 255
End

Begin Label LblFirst
  Caption = "&First Name:"
  Height = 255
  Left = 120
  TabIndex = 5
  Top = 720
  Width = 975
End

Begin Label LblLast
  Caption = "&Last Name:"
  Height = 255
  Left = 120
  TabIndex = 12
  Top = 1440
  Width = 975
End
End
End
Option Explicit

Sub TxtExt_KeyPress (KeyAscii As Integer)
    KeyAscii = ValidDigit(KeyAscii)
End Sub

Sub CmdCancel_Click ()
    Rollback
    Unload Info
    GetFile.Show
End Sub

Sub CmdOK_Click ()
    If NewStudent Then CurriD = Val(TxtID)
    If OptSex(0) = True Then DataStudent.Recordset!Sex = "M" Else DataStudent.Recordset!Sex = "F"
    DataStudent.Recordset.Update
    CommitTrans
    Unload Info
    Admiss.Show
End Sub

Sub Form_Load ()
    BeginTrans
    If Not NewStudent Then
        DataStudent.RecordSource = "SELECT * FROM Student WHERE ID = " & Str$(CurriD)
        DataStudent.Refresh
        DataStudent.Recordset.Edit
        If DataStudent.Recordset!Sex = "M" Then OptSex(0) = True Else OptSex(1) = True
        Info.Caption = "Student Info - " & DataStudent.Recordset!LastName & ", " & DataStudent.Recordset!FirstName
    Else
        DataStudent.RecordSource = "Student"
        DataStudent.Refresh
        DataStudent.Recordset.AddNew
        OptSex(0) = True
        Info.Caption = "Student Info - [New Student]"
    End If
End Sub

Sub TxtFirst_Change ()
    Info.Caption = "Student Info - " & TxtLast & ", " & TxtFirst
End Sub

Sub TxtFirst_GotFocus ()
    SelectAll
End Sub

Sub TxtID_GotFocus ()
    SelectAll
End Sub

Sub TxtID_KeyPress (KeyAscii As Integer)
    KeyAscii = ValidDigit(KeyAscii)
End Sub

Sub TxtLast_Change ()
    Info.Caption = "Student Info - " & TxtLast & ", " &TxtFirst
End Sub

Sub TxtLast_GotFocus ()
    SelectAll
End Sub

Sub TxtMiddle_GotFocus ()
    SelectAll
End Sub

Sub TxtPassword_GotFocus ()
    SelectAll
End Sub
<table>
<thead>
<tr>
<th>ACT</th>
<th>Score</th>
<th>%ile</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Skills:</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Mathematics Skills:</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Rdg Comprehension:</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Science Reasoning:</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Composite Score:</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>High School</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>English:</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Algebra:</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Geometry:</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Biology:</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>World Hist.:</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Bible:</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Other Subj.:</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Total:</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

[Image of a form]
VERSION 2.00

Begin Form Admiss
  BorderStyle = 1 'Fixed Single
  Caption = "Admissions Info"
  ClientHeight = 4212
  ClientLeft = 1032
  ClientTop = 1248
  ClientWidth = 5784
  ClipControls = 0 'False
  ControlBox = 0 'False
  Height = 4632
  Icon = (Icon)
  Left = 984
  LinkTopic = "Form4"
  MaxButton = 0 'False
  MDIChild = -1 'True
  MinButton = 0 'False
  ScaleHeight = 4212
  ScaleWidth = 5784
  Top = 876
  Width = 5880

Begin Data DataStanding
  Caption = "Standing Data"
  Connect = "C:\HONORS\DATA\DEMAS.MDB"
  Exclusive = 0 'False
  Height = 270
  Left = 0
  Options = 0
  ReadOnly = 0 'False
  RecordSource = "Standing"
  Top = 3960
  Visible = 0 'False
  Width = 2415
End

Begin Data DataStudent
  Caption = "Student Data"
  Connect = "C:\HONORS\DATA\DEMAS.MDB"
  Exclusive = 0 'False
  Height = 270
  Left = 3360
  Options = 0
  ReadOnly = 0 'False
  RecordSource = "Student"
  Top = 3960
  Visible = 0 'False
  Width = 2415
End

Begin Frame FrmStanding
  Caption = "&Standing"
  Height = 975
  Left = 120
  TabIndex = 0
  Top = 120
  Width = 3735

  Begin ComboBox CmbStanding
    Height = 300
    Left = 240
    Style = 2 'Dropdown List
    TabIndex = 1
    Top = 360
    Width = 3255
End

End

Begin CommandButton CmdOK
  Caption = "OK"
  Default = -1 'True
  Height = 495
  Left = 3360
  TabIndex = 31
  Top = 3600
  Width = 1575
End
End
Begin CommandButton CmdCancel
   Cancel = -1 'True
   Caption = "Cancel"
   Height = 495
   Left = 840
   TabIndex = 30
   Top = 3600
   Width = 1575
End

Begin Frame FrmACT
   Caption = "&ACT"
   Height = 2415
   Left = 120
   TabIndex = 2
   Top = 1080
   Width = 3735

Begin TextBox TxtACTScienceP
   Alignment = 1 'Right Justify
   DataField = "ACTScienceP"
   DataSource = "DataStudent"
   Height = 285
   Left = 3120
   MaxLength = 2
   TabIndex = 14
   Text = "0"
   Top = 1560
   Width = 375
End

Begin TextBox TxtACTReadingP
   Alignment = 1 'Right Justify
   DataField = "ACTReadingP"
   DataSource = "DataStudent"
   Height = 285
   Left = 3120
   MaxLength = 2
   TabIndex = 11
   Text = "0"
   Top = 1200
   Width = 375
End

Begin TextBox TxtACTMathP
   Alignment = 1 'Right Justify
   DataField = "ACTMathP"
   DataSource = "DataStudent"
   Height = 285
   Left = 3120
   MaxLength = 2
   TabIndex = 8
   Text = "0"
   Top = 840
   Width = 375
End

Begin TextBox TxtACTEnglishP
   Alignment = 1 'Right Justify
   DataField = "ACTEnglishP"
   DataSource = "DataStudent"
   Height = 285
   Left = 3120
   MaxLength = 2
   TabIndex = 5
   Text = "0"
   Top = 480
   Width = 375
End

Begin TextBox TxtACTScience
   Alignment = 1 'Right Justify
   DataField = "ACTScience"
   DataSource = "DataStudent"
   Height = 285
   Left = 2280
   MaxLength = 2
   TabIndex = 13
   Text = "0"
Top = 1560
Width = 375

Begin TextBox TxtACTReading
  Alignment = 1 'Right Justify
  DataField = "ACTReading"
  DataSource = "DataStudent"
  Height = 285
  Left = 2280
  MaxLength = 2
  TabIndex = 10
  Text = "0"
  Top = 1200
  Width = 375
End

Begin TextBox TxtACTMath
  Alignment = 1 'Right Justify
  DataField = "ACTMath"
  DataSource = "DataStudent"
  Height = 285
  Left = 2280
  MaxLength = 2
  TabIndex = 7
  Text = "0"
  Top = 840
  Width = 375
End

Begin TextBox TxtACTEnglish
  Alignment = 1 'Right Justify
  DataField = "ACTEnglish"
  DataSource = "DataStudent"
  Height = 285
  Left = 2280
  MaxLength = 2
  TabIndex = 4
  Text = "0"
  Top = 480
  Width = 375
End

Begin Line LineACTPercentileTotal
  BorderWidth = 2
  X1 = 3000
  X2 = 3600
  Y1 = 1920
  Y2 = 1920
End

Begin Line LineACTScoreTotal
  BorderWidth = 2
  X1 = 2160
  X2 = 2760
  Y1 = 1920
  Y2 = 1920
End

Begin Label LblACTCompositeP
  Alignment = 1 'Right Justify
  Caption = "0"
  Height = 255
  Left = 3120
  TabIndex = 32
  Top = 2040
  Width = 375
End

Begin Label LblPercentile
  Alignment = 2 'Center
  Caption = "Percentile:"
  Height = 255
  Left = 3120
  TabIndex = 38
  Top = 240
  Width = 375
End

Begin Label LblScore
  Alignment = 2 'Center
  Caption = "Score:"
  Height = 255
  Left = 3120
  TabIndex = 44
  Top = 275
  Width = 375
End
Width  =  615
End

Begin Label LblACTCompositeNum
  Alignment = 1 'Right Justify
  Caption = "0"
  Height  =  255
  Left    =  2280
  TabIndex =  36
  Top     =  2040
  Width   =  375
End

Begin Label LblComposite
  Caption = "Composite Score:"
  Height  =  255
  Left    =  120
  TabIndex =  12
  Top     =  1560
  Width   =  1935
End

Begin Label LblACTScience
  Caption = "Science &Reasoning:"
  Height  =  255
  Left    =  120
  TabIndex =  9
  Top     =  1200
  Width   =  1935
End

Begin Label LblACTReading
  Caption = "Rdg &Comprehension:"
  Height  =  255
  Left    =  120
  TabIndex =  6
  Top     =  840
  Width   =  1935
End

Begin Label LblACTMath
  Caption = "Mathematics Skills:"
  Height  =  255
  Left    =  120
  TabIndex =  3
  Top     =  480
  Width   =  1935
End

Begin Label LblACTEnglish
  Caption = "English Skills:"
  Height  =  255
  Left    =  120
  TabIndex =  3
  Top     =  480
  Width   =  1935
End

Begin Frame FrmHS
  Caption = "&High School"
  ForeColor = &H00000000&
  Height   =  3375
  Left     =  3960
  TabIndex =  15
  Top      =  120
  Width    =  1695

Begin TextBox TxtHSOther
  Alignment = 1 'Right Justify
  DataField = "HSOther"
  DataSource = "DataStudent"
  Height   =  285
  Left      =  1200
  MaxLength = 1
  TabIndex  =  29
  Text      = "0"
  Top       =  2520
End
<table>
<thead>
<tr>
<th>Width</th>
<th>255</th>
</tr>
</thead>
</table>

**Begin TextBox** TxtHSBible

- Alignment = 1 ('Right Justify')
- DataField = "HSBible"
- DataSource = "DataStudent"
- Height = 285
- Left = 1200
- MaxLength = 1
- TabIndex = 27
- Text = "0"
- Top = 2160
- Width = 255

End

**Begin TextBox** TxtHSWorldHistory

- Alignment = 1 ('Right Justify')
- DataField = "HSWorldHistory"
- DataSource = "DataStudent"
- Height = 285
- Left = 1200
- MaxLength = 1
- TabIndex = 25
- Text = "0"
- Top = 1800
- Width = 255

End

**Begin TextBox** TxtHSBiology

- Alignment = 1 ('Right Justify')
- DataField = "HSBiology"
- DataSource = "DataStudent"
- Height = 285
- Left = 1200
- MaxLength = 1
- TabIndex = 23
- Text = "0"
- Top = 1440
- Width = 255

End

**Begin TextBox**TxtHSGeometry

- Alignment = 1 ('Right Justify')
- DataField = "HSGeometry"
- DataSource = "DataStudent"
- Height = 285
- Left = 1200
- MaxLength = 1
- TabIndex = 21
- Text = "0"
- Top = 1080
- Width = 255

End

**Begin TextBox** TxtHSAlgebra

- Alignment = 1 ('Right Justify')
- DataField = "HSAlgebra"
- DataSource = "DataStudent"
- Height = 285
- Left = 1200
- MaxLength = 1
- TabIndex = 19
- Text = "0"
- Top = 720
- Width = 255

End

**Begin TextBox** TxtHSEnglish

- Alignment = 1 ('Right Justify')
- DataField = "HSEnglish"
- DataSource = "DataStudent"
- Height = 285
- Left = 1200
- MaxLength = 1
- TabIndex = 17
- Text = "0"
- Top = 360
- Width = 255

End
Begin Line LHSTotal
  BorderWidth = 2
  X1 = 1080
  X2 = 1560
  Y1 = 2880
  Y2 = 2880
End
Begin Label LblHSOther
  Caption = "&Other Subj.:
  Height = 255
  Left = 120
  TabIndex = 28
  Top = 2520
  Width = 1095
End
Begin Label LblHSBible
  Caption = "&Bible:
  Height = 255
  Left = 120
  TabIndex = 26
  Top = 2160
  Width = 1095
End
Begin Label LblHSWorldHistory
  Caption = "&World Hist.
  Height = 255
  Left = 120
  TabIndex = 24
  Top = 1800
  Width = 1095
End
Begin Label LblHSBiology
  Caption = "&Biology:
  Height = 255
  Left = 120
  TabIndex = 22
  Top = 1440
  Width = 1095
End
Begin Label LblHSGeometry
  Caption = "&Geometry:
  Height = 255
  Left = 120
  TabIndex = 20
  Top = 1080
  Width = 1095
End
Begin Label LblHSAgebra
  Caption = "&Algebra:
  Height = 255
  Left = 120
  TabIndex = 18
  Top = 720
  Width = 1095
End
Begin Label LblHSEnglish
  Caption = "&English:
  Height = 255
  Left = 120
  TabIndex = 16
  Top = 360
  Width = 1095
End
Begin Label LblHSTotalNum
  Alignment = 1 'Right Justify
  Caption = "0"
  Height = 255
  Left = 1080
  TabIndex = 34
  Top = 3000
  Width = 375
End
Begin Label LblHSTotal
  Caption = "Total:"
Height = 255
Left = 120
TabIndex = 33
Top = 3000
Width = 1095
Option Explicit

Sub UpdateACTComposite()
    Dim ACTComposite As Integer
    ACTComposite = Val(TxtACTEnglish.Text)
    ACTComposite = ACTComposite + Val(TxtACTMath.Text)
    ACTComposite = ACTComposite + Val(TxtACTReading.Text)
    ACTComposite = ACTComposite + Val(TxtACTScience.Text)
    ACTComposite = ((ACTComposite * 10 / 4) + 5) / 10
    LblACTCompositeNum.Caption = Str(ACTComposite)
End Sub

Sub UpdateACTCompositeP()
    Dim ACTCompositeP As Integer
    ACTCompositeP = Val(TxtACTEnglishP.Text)
    ACTCompositeP = ACTCompositeP + Val(TxtACTMathP.Text)
    ACTCompositeP = ACTCompositeP + Val(TxtACTReadingP.Text)
    ACTCompositeP = ACTCompositeP + Val(TxtACTScienceP.Text)
    ACTCompositeP = ((ACTCompositeP * 10 / 4) + 5) / 10
    LblACTCompositeP.Caption = Str(ACTCompositeP)
End Sub

Sub UpdateHSTotal()
    Dim HSTotal As Integer
    HSTotal = Val(TxtHSEnglish.Text)
    HSTotal = HSTotal + Val(TxtBSAlgebra.Text)
    HSTotal = HSTotal + Val(TxtBSGeometry.Text)
    HSTotal = HSTotal + Val(TxtHSBiology.Text)
    HSTotal = HSTotal + Val(TxtHSWorldHistory.Text)
    HSTotal = HSTotal + Val(TxtHSBible.Text)
    HSTotal = HSTotal + Val(TxtHSOther.Text)
    LblHSTotalNum.Caption = Str(HSTotal)
End Sub

Sub cmdCancel_Click()
    Rollback
    Unload Admiss
    Info.Show
End Sub

Sub cmdOK_Click()
    DataStudent.Recordset!Standing = Left$(CmbStanding, 1)
    DataStudent.Recordset.Update
    CommitTrans
    Unload Admiss
    FieldsStudy.Show
End Sub

Sub Form_Load()
    BeginTrans
    DataStudent.RecordSource = "SELECT * FROM Student WHERE ID = " & Str$(CurriD)
    DataStudent.Refresh
    Admiss.Caption = "Admissions Info - " & DataStudent.Recordset!LastName & "", " & DataStudent.Recordset!FirstName
    DataStanding.Refresh
    Do Until DataStanding.Recordset.EOF
        CmbStanding.AddItem DataStanding.Recordset!Code & " - " & DataStanding.Recordset!Name
        If DataStudent.Recordset!Standing = DataStanding.Recordset!Code Then CmbStanding.ListIndex = DataStanding.ListCount - 1
        DataStanding.Recordset.MoveNext
    Loop
    If NewStudent Then CmbStanding.ListIndex = 0
    UpdateACTComposite
    UpdateACTCompositeP
    UpdateHSTotal
    DataStudent.Recordset.Edit
End Sub

Sub TxtACTEnglish_GotFocus()
    SelectAll
End Sub

Sub TxtACTEnglish_KeyPress(KeyAscii As Integer)
    KeyAscii = ValidDigit(KeyAscii)
End Sub

Sub TxtACTEnglish_LostFocus()
    UpdateACTComposite
End Sub

Sub TxtACTEnglishP_GotFocus()
    SelectAll
End Sub

Sub TxtACTEnglishP_KeyPress(KeyAscii As Integer)
    KeyAscii = ValidDigit(KeyAscii)
End Sub

Sub TxtACTEnglishP_LostFocus()
    UpdateACTCompositeP
End Sub

Sub TxtACTMath_GotFocus()
    SelectAll
End Sub

Sub TxtACTMath_KeyPress(KeyAscii As Integer)
    KeyAscii = ValidDigit(KeyAscii)
End Sub

Sub TxtACTMath_LostFocus()
    UpdateACTComposite
End Sub

Sub TxtACTMathP_GotFocus()
    SelectAll
End Sub

Sub TxtACTMathP_KeyPress(KeyAscii As Integer)
    KeyAscii = ValidDigit(KeyAscii)
End Sub

Sub TxtACTMathP_LostFocus()
    UpdateACTCompositeP
End Sub

Sub TxtACTReading_GotFocus()
    SelectAll
End Sub

Sub TxtACTReading_KeyPress(KeyAscii As Integer)
    KeyAscii = ValidDigit(KeyAscii)
End Sub

Sub TxtACTReading_LostFocus()
    UpdateACTComposite
End Sub

SubTxtACTReadingP_GotFocus()
    SelectAll
End Sub

Sub TxtACTReadingP_KeyPress(KeyAscii As Integer)
    KeyAscii = ValidDigit(KeyAscii)
End Sub

Sub TxtACTReadingP_LostFocus()
    UpdateACTCompositeP
End Sub
Sub TxtACTScience_GotFocus()
SelectAll
End Sub

Sub TxtACTScience_KeyPress(KeyAscii As Integer)
KeyAscii = ValidDigit(KeyAscii)
End Sub

Sub TxtACTScience_LostFocus()
UpdateACTComposite
End Sub

Sub TxtACTScienceP_GotFocus()
SelectAll
End Sub

Sub TxtACTScienceP_KeyPress(KeyAscii As Integer)
KeyAscii = ValidDigit(KeyAscii)
End Sub

Sub TxtACTScienceP_LostFocus()
UpdateACTCompositeP
End Sub

Sub TxtHSAlgebra_GotFocus()
SelectAll
End Sub

Sub TxtHSAlgebra_KeyPress(KeyAscii As Integer)
KeyAscii = ValidDigit(KeyAscii)
End Sub

Sub TxtHSAlgebra_LostFocus()
UpdateHSTotal
End Sub

Sub TxtHSBible_GotFocus()
SelectAll
End Sub

Sub TxtHSBible_KeyPress(KeyAscii As Integer)
KeyAscii = ValidDigit(KeyAscii)
End Sub

Sub TxtHSBible_LostFocus()
UpdateHSTotal
End Sub

Sub TxtHSBiology_GotFocus()
SelectAll
End Sub

Sub TxtHSBiology_KeyPress(KeyAscii As Integer)
KeyAscii = ValidDigit(KeyAscii)
End Sub

Sub TxtHSBiology_LostFocus()
UpdateBSTotal
End Sub

Sub TxtHSEnglish_GotFocus()
SelectAll
End Sub

Sub TxtBSEnglish_KeyPress(KeyAscii As Integer)
KeyAscii = ValidDigit(KeyAscii)
End Sub

Sub TxtHSEnglish_LostFocus()
UpdateHSTotal
End Sub

Sub TxtHSGeometry_GotFocus()
SelectAll
End Sub

Sub TxtHSGeometry_KeyPress (KeyAscii As Integer)
    KeyAscii = ValidDigit(KeyAscii)
End Sub

Sub TxtHSGeometry_LostFocus ()
    UpdateHSTotal
End Sub

Sub TxtHSOther_GotFocus ()
    SelectAll
End Sub

Sub TxtHSOther_KeyPress (KeyAscii As Integer)
    KeyAscii = ValidDigit(KeyAscii)
End Sub

Sub TxtHSOther_LostFocus ()
    UpdateHSTotal
End Sub

Sub TxtHSWorldHistory_GotFocus ()
    SelectAll
End Sub

Sub TxtHSWorldHistory_KeyPress (KeyAscii As Integer)
    KeyAscii = ValidDigit(KeyAscii)
End Sub

Sub TxtHSWorldHistory_LostFocus ()
    UpdateHSTotal
End Sub
Available Fields:

<table>
<thead>
<tr>
<th>LstAvail</th>
<th>Degree Code</th>
<th>Degree Abbr</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Field Code</td>
<td>Field Name</td>
</tr>
<tr>
<td></td>
<td>Student Deg</td>
<td>Student Field</td>
</tr>
</tbody>
</table>

Current Fields of Study:
Bachelor of Science

LstFields
VERSION 2.00
Begin Form FieldStudy
BorderStyle = 1 'Fixed Single
Caption = "Fields of Study"
ClientHeight = 3600
ClientLeft = 648
ClientTop = 1392
ClientWidth = 7452
ClipControls = 0 'False
ControlBox = 0 'False
Height = 4020
Icon = (Icon)
Left = 600
LinkTopic = "Form2"
MaxButton = 0 'False
MDIChild = -1 'True
MinButton = 0 'False
ScaleHeight = 3600
ScaleWidth = 7452
Top = 1020
Width = 7548
Begin Data DataStudent
Caption = "Student Data"
Connect = ""
DatabaseName = "C:\HONORS\DATA\DEMAS.MDB"
Exclusive = 0 'False
Height = 270
Left = 0
Options = 0
ReadOnly = 0 'False
RecordSource = "Student"
Top = 3360
Visible = 0 'False
Width = 1935
End
Begin Data DataDegree
Caption = "Degree Data"
Connect = ""
DatabaseName = "C:\HONORS\DATA\DEMAS.MDB"
Exclusive = 0 'False
Height = 270
Left = 1920
Options = 0
ReadOnly = 0 'False
RecordSource = "Degree"
Top = 3360
Visible = 0 'False
Width = 1815
End
Begin Data DataStudentField
Caption = "Student Field Data"
Connect = ""
DatabaseName = "C:\HONORS\DATA\DEMAS.MDB"
Exclusive = 0 'False
Height = 270
Left = 5400
Options = 0
ReadOnly = 0 'False
RecordSource = "StudentField"
Top = 3360
Visible = 0 'False
Width = 2055
End
Begin Data DataField
Caption = "Field Data"
Connect = ""
DatabaseName = "C:\HONORS\DATA\DEMAS.MDB"
Exclusive = 0 'False
Height = 270
Left = 3720
Options = 0
ReadOnly = 0 'False
RecordSource = "Field"
Top = 3360
FIELDS.FRM - 2

Visible = 0 'False
Width = 1695
End

Begin CommandButton CmdCancelButton
  Cancel = -1 'True
  Caption = "Cancel"
  Height = 495
  Left = 4560
  TabIndex = 6
  Top = 3000
  Width = 1095
End

Begin CommandButton CmdOK
  Caption = "OK"
  Default = -1 'True
  Height = 495
  Left = 6120
  TabIndex = 7
  Top = 3000
  Width = 1095
End

Begin CommandButton CmdRemove
  Caption = "<-&Drop-<"
  Height = 495
  Left = 3120
  TabIndex = 3
  Top = 1920
  Width = 1215
End

Begin CommandButton CmdAdd
  Caption = "->&Add->"
  Height = 495
  Left = 3120
  TabIndex = 2
  Top = 960
  Width = 1215
End

Begin ListBox LstFields
  Columns = 2
  Height = 2136
  Left = 4440
  TabIndex = 5
  Top = 600
  Width = 2892
End

Begin ListBox LstAvail
  Height = 3096
  Left = 120
  Sorted = -1 'True
  TabIndex = 1
  Top = 360
  Width = 2892
End

Begin Label LblStudentField
  BorderStyle = 1 'Fixed Single
  Caption = "Student Field"
  DataField = "Field"
  DataSource = "DataStudentField"
  Height = 255
  Left = 3120
  TabIndex = 14
  Top = 2640
  Visible = 0 'False
  Width = 1215
End

Begin Label LblStudentDegree
  BorderStyle = 1 'Fixed Single
  Caption = "Student Deg"
  DataField = "Degree"
  DataSource = "DataStudentField"
  Height = 255
  Left = 3120
  TabIndex = 13
  Top = 2400
Visible = 0 'False
Width = 1215
End
Begin Label LblDegreeAbbr
BorderStyle = 1 'Fixed Single
Caption = "Degree Abbr"
DataField = "Abbr"
DataSource = "DataDegree"
Height = 255
Left = 3120
TabIndex = 12
Top = 720
Visible = 0 'False
Width = 1215
End
Begin Label LblFieldCode
BorderStyle = 1 'Fixed Single
Caption = "Field Code"
DataField = "Code"
DataSource = "DataField"
Height = 255
Left = 3120
TabIndex = 11
Top = 1440
Visible = 0 'False
Width = 1215
End
Begin Label LblDegreeCode
BorderStyle = 1 'Fixed Single
Caption = "Degree Code"
DataField = "Degree"
DataSource = "DataField"
Height = 255
Left = 3120
TabIndex = 10
Top = 480
Visible = 0 'False
Width = 1215
End
Begin Label LblFieldName
BorderStyle = 1 'Fixed Single
Caption = "Field Name"
DataField = "Name"
DataSource = "DataField"
Height = 255
Left = 3120
TabIndex = 9
Top = 1680
Visible = 0 'False
Width = 1215
End
Begin Label LblDegree
Caption = "Bachelor of Science"
Height = 255
Left = 4440
TabIndex = 8
Top = 360
Width = 2295
End
Begin Label LblAreas
Caption = "&Current Fields of Study:
Height = 255
Left = 4440
TabIndex = 4
Top = 120
Width = 2535
End
Begin Label LblAvail
Caption = "&Available Fields:
Height = 255
Left = 120
TabIndex = 0
Top = 120
Width = 1455
Option Explicit

Sub cmdAdd_Click()
    LstFields.AddItem LstAvail.Text
    LstAvail.RemoveItem LstAvail.ListIndex
End Sub

Sub cmdCancel_Click()
    Rollback
    Unload FieldsStudy
    Admiss.Show
End Sub

Sub cmdOK_Click()
    CommitTrans
    Unload FieldsStudy
    Trans.Show
End Sub

Sub cmdRemove_Click()
    LstAvail.AddItem LstFields.Text
    LstFields.RemoveItem LstFields.ListIndex
End Sub

Sub Form_Load()
    DataStudent.RecordSource = "SELECT * FROM Student WHERE ID = " & Str$(CurrID)
    DataStudent.Refresh
    FieldsStudy.Caption = "Fields of Study - " & DataStudent.Recordset!LastName & ", " & DataStudent.Recordset!FirstName
    DataField.RecordSource = "SELECT * FROM Field"
    DataField.Refresh
    Do Until DataField.Recordset.EOF
        DataDegree.RecordSource = "SELECT * FROM Degree WHERE Code = " & LblDegreeCode & ""
        DataDegree.Refresh
        LstAvail.AddItem LblDegreeAbbr & " in " & LblFieldName
        DataStudentField.RecordSource = "SELECT * FROM StudentField WHERE Degree = " & LblDegreeCode & " and Field = " & LblFieldCode & ""
        DataStudentField.Refresh
        If DataStudentField.Recordset.RecordCount = 1 Then
            LstFields.AddItem LblDegreeAbbr & " in " & LblFieldName
        End If
    Loop
    BeginTrans
End Sub
TRANS.FRM - 1

VERSION 2.00

Begin Form Trans
  BorderStyle = 1 'Fixed Single
  Caption = "Transcript"
  ClientHeight = 4932
  ClientLeft = 1020
  ClientTop = 1416
  ClientWidth = 6732
  ControlBox = 0 'False
  Height = 5352
  Icon = (Icon)
  Left = 972
  LinkTopic = "Form1"
  MaxButton = 0 'False
  MDI Child = -1 'True
  MinButton = 0 'False
  ScaleHeight = 4932
  ScaleWidth = 6732
  Top = 1044
  Width = 6828

Begin Data DataGrade
  Caption = "Grade Data"
  Connect = ""
  DatabaseName = "C:\HONORS\DATA\DEMAS.MDB"
  Exclusive = 0 'False
  Height = 270
  Left = 4920
  Options = 0
  ReadOnly = 0 'False
  RecordSource = "Grade"
  Top = 1320
  Visible = 0 'False
  Width = 1815

End

Begin Data DataTerm
  Caption = "Term Data"
  Connect = ""
  DatabaseName = "C:\HONORS\DATA\DEMAS.MDB"
  Exclusive = 0 'False
  Height = 270
  Left = 0
  Options = 0
  ReadOnly = 0 'False
  RecordSource = "Term"
  Top = 1320
  Visible = 0 'False
  Width = 1695

End

Begin Data DataStudentClass
  Caption = "Student Class Data"
  Connect = ""
  DatabaseName = "C:\HONORS\DATA\DEMAS.MDB"
  Exclusive = 0 'False
  Height = 270
  Left = 4320
  Options = 0
  ReadOnly = 0 'False
  RecordSource = "StudentClass"
  Top = 4680
  Visible = 0 'False
  Width = 2415

End

Begin Data DataStudent
  Caption = "Student Data"
  Connect = ""
  DatabaseName = "C:\HONORS\DATA\DEMAS.MDB"
  Exclusive = 0 'False
  Height = 270
  Left = 0
  Options = 0
  ReadOnly = 0 'False
  RecordSource = "Student"
  Top = 4680
  Visible = 0 'False
Width     =  1935
End
Begin Data DataClass
  Caption          =  "Class Data"
  Connect          =  ""
  DatabaseName     =  "C:\HONORS\DATA\DEMAS.MDB"
  Exclusive        =  0  'False
  Height           =  270
  Left             =  2280
  Options          =  0
  ReadOnly         =  0  'False
  RecordSource     =  "Class"
  Top              =  4680
  Visible          =  0  'False
  Width            =  1695
End
Begin CommandButton CmdCancel
  Cancel           =  -1  'True
  Caption          =  "Cancel Changes"
  Height           =  495
  Left             =  840
  TabIndex         =  6
  Top              =  4320
  Width            =  1935
End
Begin CommandButton CmdAccept
  Caption          =  "Accept Transcript"
  Default          =  -1  'True
  Height           =  495
  Left             =  3960
  TabIndex         =  7
  Top              =  4320
  Width            =  1935
End
Begin Frame FrmAdd
  Caption          =  "Add Class to Transcript"
  Height           =  1335
  Left             =  120
  TabIndex         =  0
  Top              =  120
  Width            =  6495
Begin TextBox TxtYear
  Height           =  285
  Left             =  2640
  MaxLength        =  4
  TabIndex         =  3
  Text             =  "1995"
  Top              =  840
  Width            =  615
End
Begin ComboBox CmbTerm
  Height           =  300
  Left             =  120
  Style            =  2  'Dropdown List
  TabIndex         =  2
  Top              =  840
  Width            =  1815
End
Begin CommandButton CmdAdd
  Caption          =  "Add"
  Height           =  375
  Left             =  5160
  TabIndex         =  5
  Top              =  840
  Width            =  1215
End
Begin ComboBox CmbGrade
  Height           =  300
  Left             =  4200
  Style            =  2  'Dropdown List
  TabIndex         =  4
  Top              =  840

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Width = 735

End

Begin ComboBox CmbClass
  Height = 300
  Left = 120
  Style = 2 'Dropdown List
  TabIndex = 1

  Top = 360
  Width = 1215

End

Begin Label LblGrade
  Caption = "Grade:"
  Height = 255
  Left = 3600
  TabIndex = 13
  Top = 840
  Width = 615

End

Begin Label LblYear
  Caption = "Year:"
  Height = 255
  Left = 6120
  TabIndex = 9
  Top = 840
  Width = 495

End

Begin Label LblClassName
  BorderStyle = 1 'Fixed Single
  Caption = "Class Name"
  DataField = "Name"
  DataSource = "DataClass"
  Height = 255
  Left = 1560
  TabIndex = 10
  Top = 360
  Width = 3735

End

End

Begin Grid GrdTrans
  Cols = 6
  Enabled = 0 'False
  FixedCols = 0
  Height = 2655
  HighLight = 0 'False
  Left = 120
  ScrollBars = 2 'Vertical
  TabIndex = 8
  TabStop = 0 'False
  Top = 1560
  Width = 6495

End

Begin Label LblClassCode
TRANS.FRM - 4

BorderStyle = 1 'Fixed Single
Caption = "Class Code"
DataField = "Class"
DataSource = "DataStudentClass"
Height = 255
Left = 2760
TabIndex = 14
Top = 4320
Visible = 0 'False
Width = 1215
End
End
Option Explicit

Sub FillGrid()
    Dim NewRow As String
    DataStudentClass.RecordSource = "SELECT * FROM StudentClass WHERE ID = " & Str$(CurrID) & " ORDER BY Class"
    DataStudentClass.Refresh
    Do Until DataStudentClass.Recordset.EOF
        DataClass.RecordSource = "SELECT * FROM Class WHERE Code = " & LblClassCode & ""
        DataClass.Refresh
        NewRow = LblClassCode & HTab & DataClass.Recordset!Name & HTab & DataClass.Recordset!Hr & HTab & DataClass.Recordset!Dept
        NewRow = NewRow & HTab & CmbTerm.List(DataStudentClass.Recordset!Term - 1) & HTab
        NewRow = NewRow & DataStudentClass.Recordset!Year & HTab & DataStudentClass.Recordset!Gra
        GrdTrans.AddItem NewRow
        DataStudentClass.Recordset.MoveNext
    Loop
    If GrdTrans.Rows > 2 Then GrdTrans.RemoveItem 1
End Sub

Sub SetupCombos()
    DataClass.RecordSource = "SELECT * FROM Class ORDER BY Code"
    DataClass.Refresh
    Do Until DataClass.Recordset.EOF
        CmbClass.AddItem DataClass.Recordset!Code
        DataClass.Recordset.MoveNext
    Loop
    If CmbClass.ListCount > 0 Then CmbClass.ListIndex = 0
    DataTerm.RecordSource = "SELECT * FROM Term ORDER BY Code"
    DataTerm.Refresh
    Do Until DataTerm.Recordset.EOF
        CmbTerm.AddItem DataTerm.Recordset!Name
        DataTerm.Recordset.MoveNext
    Loop
    If CmbTerm.ListCount > 0 Then CmbTerm.ListIndex = 0
    DataGrade.RecordSource = "SELECT * FROM Grade ORDER BY Code"
    DataGrade.Refresh
    Do Until DataGrade.Recordset.EOF
        CmbGrade.AddItem DataGrade.Recordset!Code
        DataGrade.Recordset.MoveNext
    Loop
    If CmbGrade.ListCount > 0 Then CmbGrade.ListIndex = 0
End Sub

Sub SetupGrid()
    'Set up column widths
    GrdTrans.ColWidth(0) = 1000
    GrdTrans.ColWidth(1) = 3000
    GrdTrans.ColWidth(2) = 300
    GrdTrans.ColWidth(3) = 1000
    GrdTrans.ColWidth(4) = 500
    GrdTrans.ColWidth(5) = 300
    'Set up column titles
    GrdTrans.Row = 0
    GrdTrans.Col = 0
    GrdTrans.Text = "Dept/#"
    GrdTrans.Col = 1
    GrdTrans.Text = "Class"
    GrdTrans.Col = 2
    GrdTrans.Text = "Hr"
    GrdTrans.Col = 3
TRANS.FR M - 2

GrdTrans.Text = "Tr"
GrdTrans.Col = 4
GrdTrans.Text = "Year"
GrdTrans.Col = 5
GrdTrans.Text = "Gr"
End Sub

Sub CmbClass_Click()
    DataClass.Recordsource = "SELECT * FROM Class WHERE Code = "" & CmbClass & ""
    DataClass.Refresh
End Sub

Sub CmdAccept_Click()
    DataStudentclass.Recordset.Update
    CommitTrans
    Unload Trans
    Req.Show
End Sub

Sub CmdAdd_Click()
    Dim NewRow As String
    DataStudentClass.RecordSource = "SELECT * FROM StudentClass"
    DataStudentClass.Refresh
    DataStudentClass.Recordset.AddNew
    DataStudentClass.Recordset.ID = CurrID
    DataStudentClass.Recordset:Class = CmbClass
    DataStudentClass.Recordset:Term = CmbTerm.ListIndex + 1
    DataStudentClass.Recordset:Year = TxtYear
    DataStudentClass.Recordset:Grade = CmbGrade
    DataStudentClass.Recordset.Update

    NewRow = CmbClass & HTab & LblClassName & HTab & LblHoursNum & HTab
    NewRow = NewRow & CmbTerm & HTab & TxtYear & HTab & CmbGrade
    GrdTrans.AddItem NewRow
End Sub

Sub Form_Load()
    BeginTrans
    SetupGrid
    SetupCombos
    FillGrid
End Sub

Sub TxtYear_GotFocus()
    SelectAll
End Sub

Sub TxtYear_KeyPress(KeyAscii As Integer)
    KeyAscii = ValidDigit(KeyAscii)
End Sub
Fields of Study:
LstFields

Areas:
LstAreas

Classes: (Highlighted courses are available)
LstClasses
REQ.FRM - 1

VERSION 2.00

Begin Form Req

BorderStyle = 1 'Fixed Single
Caption = "Requirements"
ClientHeight = 4572
ClientLeft = 2256
ClientTop = 468
ClientWidth = 5652
ClipControls = 0 'False
ControlBox = 0 'False
Height = 4992
Icon = (Icon)
Left = 2208
LinkTopic = "Form3"
MaxButton = 0 'False
MDI Child = -1 'True
MinButton = 0 'False
ScaleHeight = 4572
ScaleWidth = 5652
Top = 96
Width = 5748

Begin CommandButton CmdBack

Cancel = -1 'True
Caption = "Go Back"
Height = 495
Left = 840
TabIndex = 6
Top = 3960
Width = 1575

End

Begin Data DataDegree

Caption = "Degree Data"
Connect = ""
DatabaseName = "C:\HONORS\DATA\DEMAS.MDB"
Exclusive = 0 'False
Height = 270
Left = 2160
Options = 0
ReadOnly = 0 'False
RecordSource = "Degree"
Top = 840
Visible = 0 'False
Width = 1860

End

Begin Data DataClass

Caption = "Class Data"
Connect = ""
DatabaseName = "C:\HONORS\DATA\DEMAS.MDB"
Exclusive = 0 'False
Height = 270
Left = 3960
Options = 0
ReadOnly = 0 'False
RecordSource = "Class"
Top = 2040
Visible = 0 'False
Width = 1740

End

Begin Data DataArea

Caption = "Area Data"
Connect = ""
DatabaseName = "C:\HONORS\DATA\DEMAS.MDB"
Exclusive = 0 'False
Height = 270
Left = 4080
Options = 0
ReadOnly = 0 'False
RecordSource = "Area"
Top = 1080
Visible = 0 'False
Width = 1620

End

Begin Data DataStudentField

Caption = "Student Field Data"

End
Connect = "" 
DatabaseName = "C:\HONORS\DATA\DEMAS.MDB"
Exclusive = 0 'False
Height = 270
Left = 3360
Options = 0
ReadOnly = 0 'False
RecordSource = "StudentField"
Top = 120
Visible = 0 'False
Width = 2340
End
Begin Data DataField
Caption = "Field Data"
Connect = ""
DatabaseName = "C:\HONORS\DATA\DEMAS.MDB"
Exclusive = 0 'False
Height = 270
Left = 3960
Options = 0
ReadOnly = 0 'False
RecordSource = "Field"
Top = 840
Visible = 0 'False
Width = 1740
End
Begin CommandButton CmdOK
Caption = "OK"
Default = -1 'True
Height = 495
Left = 3240
TabIndex = 7
Top = 3960
Width = 1575
End
Begin ListBox LstClasses
Height = 1560
Left = 120
MultiSelect = 1 'Simple
TabIndex = 5
Top = 2280
Width = 5412
End
Begin ListBox LstAreas
Height = 600
Left = 120
TabIndex = 3
Top = 1320
Width = 5412
End
Begin ListBox LstFields
Height = 600
Left = 120
TabIndex = 1
Top = 360
Width = 5412
End
Begin Label LblClasses
Caption = "Classes: (Highlighted courses are available next semester)"
Height = 255
Left = 120
TabIndex = 4
Top = 2040
Width = 5415
End
Begin Label LblAreas
Caption = "Areas:"
Height = 255
Left = 120
TabIndex = 2
Top = 1080
Width = 615
End
Begin Label LblFields
Caption = "Fields of Study:"
Height = 255
Left = 120
TabIndex = 0
Top = 120
Width = 1335
Option Explicit

Sub CmdBack_Click ()
    Unload Req
    Trans.Show
End Sub

Sub CmdOK_Click ()
    Unload Req
    Sched.Show
End Sub

Sub Form_Load ()
    Dim DataStudentField, DataField, DataDegree, LstFields, LstAreas

    DataStudentField.RecordSource = "SELECT * FROM StudentField WHERE ID = " & Str$(CurrID)
    DataStudentField.Refresh
    Do Until DataStudentField.Recordset.EOF
        DataField.RecordSource = "SELECT * FROM Field WHERE Degree = " & DataStudentField.Recordset!Degree & " And Code = " & DataStudentField.Recordset!Field & ""
        DataField.Refresh
        DataDegree.RecordSource = "SELECT * FROM Degree WHERE Code = " & DataStudentField.Recordset!Degree & ""
        DataDegree.Refresh
        DataStudentField.Recordset.MoveNext
        Loop
End Sub

Sub LstFields_Click ()
    LstAreas.Clear
    DataArea.RecordSource = "SELECT * FROM Area WHERE Degree = " & Left$(LstFields, 2) & " and Field = " & Mid$(LstFields, 3, 2) & ""
    DataArea.Refresh
    Do Until DataArea.Recordset.EOF
        LstAreas.AddItem DataArea.Recordset!Name
        DataArea.Recordset.MoveNext
        Loop
End Sub
VERSION 2.00

Begin Form Sched
  BorderStyle   =   1 'Fixed Single
  Caption       =   "Class Schedule"
  ClientHeight  =   4092
  ClientLeft    =   792
  ClientTop     =   1368
  ClientWidth   =   7224
  ClipControls  =   0 'False
  ControlBox    =   0 'False
  Height        =   4512
  Icon          =   (Icon)
  Left          =   744
  LinkTopic     =   "Form5"
  MaxButton     =   0 'False
  MDIChild      =   -1 'True
  MinButton     =   0 'False
  ScaleHeight   =   4092
  ScaleWidth    =   7224
  Top           =   996
  Width         =   7320

Begin Grid GrdSched
  Cols          =   7
  Height        =   3375
  Highlight     =   0 'False
  Left          =   120
  Rows          =   49
  ScrollBars    =   2 'Vertical
  TabIndex      =   0
  Top           =   120
  Width         =   6975

End
End
Option Explicit

Sub SetupGrid ()
    'Set up column widths
    GrdSched.ColWidth(0) = 500
    GrdSched.ColWidth(1) = 1000
    GrdSched.ColWidth(2) = 1000
    GrdSched.ColWidth(3) = 1000
    GrdSched.ColWidth(4) = 1000
    GrdSched.ColWidth(5) = 1000
    GrdSched.ColWidth(6) = 1000

    'Set up column titles
    GrdSched.Row = 0
    GrdSched.Col = 0
    GrdSched.Text = "Time"
    GrdSched.Col = 1
    GrdSched.Text = "Sun"
    GrdSched.Col = 2
    GrdSched.Text = "Mon"
    GrdSched.Col = 3
    GrdSched.Text = "Tue"
    GrdSched.Col = 4
    GrdSched.Text = "Wed"
    GrdSched.Col = 5
    GrdSched.Text = "Thu"
    GrdSched.Col = 6
    GrdSched.Text = "Fri"
End Sub

Sub Form_Load ()
    SetupGrid
End Sub
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Defint A-Z

Type use by the API routine InvertRect()

Type RECT

Left As Integer
Top As Integer
Right As Integer
bottom As Integer

End Type

Type use by IconWorks to keep track of the 6 Icons that be edited at once.

Type ICONRECORD

FileName As string
FullPath As string
Changed As Integer

End Type

Window API Function Declarations

Declare Function BitBlt Lib "Gdi" (ByVal destBdc, ByVal X, ByVal Y, ByVal w, ByVal h, ByVal srcHd c, ByVal srcx, ByVal srcY, ByVal Rop As Long)
Declare Function createcompatibleBitmap Lib "Gdi" (ByVal hdc, ByVal w, ByVal h)
Declare Function CreateCompatibleDC Lib "Gdi" (ByVal hdc)
Declare Function DeleteDC Lib "Gdi" (ByVal hdc)
Declare Function Deleteobject Lib "Gdi" (ByVal hObject)
Declare Function ExtFloodFill Lib "Gdi" (ByVal hdc, ByVal X, ByVal Y, ByVal crColor As Long, ByVal wFillType)
Declare Function GetBitmapBits Lib "Gdi" (ByVal hBitmap, ByVal dwCount As Long, ByVal lpBits As Long) As Long
Declare Function GetDeviceCaps Lib "Gdi" (ByVal hdc, ByVal nIndex)
Declare Function GetMenu Lib "User" (ByVal hwnd)
Declare Function GetNearestColor Lib "Gdi" (Byval hdc, ByVal RGBColor As Long) As Long
Declare Function GetPrivateProfileInt Lib "Kernel" (Byval Appname As String, ByVal KeyName As String, ByVal DEFAULT As Integer, ByVal FileName As String)
Declare Function GetPrivateProfileString Lib "Kernel" (Byval Appname As String, ByVal KeyName As String, ByVal DEFAULT As String, ByVal ReturnedString As String, ByVal Maxsize, ByVal FileName As String)
Declare Function GetSubMenu Lib "User" (ByVal hwnd, ByVal Position)
Declare Function GetSystemMenu Lib "User" (ByVal hwnd, ByVal bRevert)
Declare Function GlobalLock Lib "Kernel" (Byval hWnd, ByVal mMem) As Long
Declare Function GlobalUnlock Lib "Kernel" (Byval hWnd, ByVal hObject)
Declare Function InvertRect Lib "User" (Byval hdc, lpRect As RECT)
Declare Function MoveMenu Lib "User" (ByVal hWnd, ByVal nMenu, ByVal hWnd, ByVal hWndMenu, ByVal Flags)
Declare Function Selectobject Lib "Gdi" (ByVal hdc, ByVal hObject)
Declare Function SetBitmapBits Lib "Gdi" (ByVal hBitmap, ByVal dwCount As Long, ByVal lpBits As Long) As Long
Declare Function StretchBlt Lib "Gdi" (ByVal destRdc, ByVal X, ByVal Y, ByVal w, ByVal h, ByVal srcHdc, ByVal srcX, ByVal srcY, ByVal srcw, ByVal srcH, ByVal Rop As Long)
Declare Function TrackPopupMenu Lib "User" (ByVal hMenu, ByVal rl, ByVal X, ByVal Y, ByVal r2, ByVal hwnd, ByVal rJ As Long)
Declare Function WinHelp Lib "User" (ByVal hwnd, ByVal HelpFile$, ByVal wcommand, ByVal dwData As Long)
Declare Function WritePrivateProfileString Lib "Kernel" (Byval Appname As String, ByVal KeyName As String, ByVal NewString As String, ByVal FileName As String)

Window API Constant Declarations

Global Const SRCCOPY = &BCC0020
Global Const SRCAND = &H8800C6
Global Const SRCINVERT = &8660046
Global Const FLOODFILLSURFACE = 1
Global Const MF_BYPOSITION = &H400
Global Const BITSPIXEL = 12
Global Const APP_NAME = "Iconworks"
Global Const KEY_COLOR = "Colors Row"
Global Const KEY_GRID = "Grid"
Global Const KEY_LINE_GRID = "Line Grid"
Global Const KEY_DOTTED_GRID = "Dotted Grid"
Global Const KEY_STATUS_BAR = "Status Bar"
Global Const KEY_TOOL_PALETTE = "Tool Palette"
Global Const KEY_COLOR_PALETTE = "Color Palette"
Global Const KEY_ZOOM_SCROLLBAR = "Zoom Scrollbar"
Global Const KEY_FOCUS = "Editor Focus"
Global Const KEY_BORDER = "Icon Border"
Global Const KEY_POPUP = "Popup Menu"
Global Const KEY_SHOW_ICONS = "Show Icons"
Global Const KEY_DEFAULT = "Default Colors"
Global Const KEY_SOLID = "Solid Colors"
Global Const KEY_INI = "INI File Colors"
Global Const INI_FILENAME = "IconWrks.INI"

Default Color palette values
Global Const DEFAULT_COLORS_ROW1 = "16777215 14737632 12632319 12640511 14745599 12648384 1677712 16761024 16761087 00000192 00016576 00049344 00049152 12632064 12582912 12583104"
Global Const DEFAULT_COLORS_ROW2 = "12632256 04210752 08421631 08438015 08454143 08454016 1677708 16744576 16744703 00000128 00016512 00032896 00032768 08421376 08388608 08388736"
Global Const DEFAULT_COLORS_ROW3 = "08421504 00000000 00000255 00033023 00065535 00065280 1677696 16711680 16711935 00000064 04210816 00016448 00016384 04210688 04194304 04194368"

Default value for ICONRECORD Filename field
Global Const UNTITLED = "[Untitled]"

Editor's File Menu ID's
Global Const MID_NEW = 0
Global Const MID_OPEN = 1
Global Const MID_SAVE = 2
Global Const MID_SAVE_AS = 3
Global Const MID_EXIT = 5

Editor's Edit Menu ID's
Global Const MID_UNDO = 0
Global Const MID_CUT = 2
Global Const MID_COPY = 3
Global Const MID_PASTE = 4
Global Const MID_PASTE_OPAQUE = 5
Global Const MID_DELETE = 6
Global Const MID_SELECT_ALL = 7
Global Const MID_FLIP_HORIZONTAL = 9
Global Const MID_FLIP_VERTICAL = 10
Global Const MID_ROTATE_RIGHT = 12
Global Const MID_ROTATE_LEFT = 13
Global Const MID_INVERT = 15

Editor's View Menu ID's
Global Const MID_STATUS_BAR = 0
Global Const MID_TOOL_PALETTE = 1
Global Const MID_COLOR_PALETTE = 2
Global Const MID_ZOOM_SCROLLBAR = 3
Global Const MID_SHOW_ALL = 4
Global Const MID_GRID = 6
Global Const MID_LINE_GRID = 7
Global Const MID_DOTTED_GRID = 8
Global Const MID_ZOOM_IN = 10
Global Const MID_ZOOM_OUT = 11
Global Const MID_FOCUS = 13
Global Const MID_BORDER = 14
Global Const MID_POPUP_MENU = 15

Editor's Color Menu ID's
' Viewer's Options Menu ID's
Global Const MID_EDITOR = 0
Global Const MID_SHOW_ALL_ICONS = 1
Global Const MID_SHOW_ON_DIR_CHANGE = 3
' Help Menu ID's
Global Const MID_INDEX = 1
Global Const MID_KEYBOARD = 2
Global Const MID_COMMANDS = 3
Global Const MID_USING_HELP = 4
Global Const MID_ABOUT = 6
' Index values for Editor.Opt_ColorMouse()
Global Const MOUSE_COLORS = 0
Global Const SCREEN_COLORS = 1
' Adjustment Values for Editor's Sub Adjust_X_And_Y()
Global Const TO_CENTER = 0
Global Const TO_EDGE = 1
' Editor's ToolPalette ID's
Global Const TID_SELECT = 0
Global Const TID_PAINT = 1
Global Const TID_FILL = 2
Global Const TID_LINE = 3
Global Const TID_SQUARE = 4
Global Const TID_FILLED_SQUARE = 5
Global Const TID_CIRCLE = 6
Global Const TID_FILLED_CIRCLE = 7
' Viewer and SaveFileDialog File Control values
Global Const FILE_NOT_FOUND = 53
Global Const FILENAME_CHANGED = 0
Global Const FILE_CHANGED = 1
Global Const DIR_CHANGED = 2
' Viewer's viewing window Cell size - 32x32 pixels + 1
Global Const ICON_CELL = 34
' Index's into the ColorPalettes' Scrl_RGB()
Global Const RED_ELEMENT = 0
Global Const GREEN_ELEMENT = 1
Global Const BLUE_ELEMENT = 2
' Miscellaneous
Global Const EGA_HEIGHT = 7000
Global Const HID_DEFining_COLORS = 1000
Global Const ICONWORKS_EDITOR = 0
Global Const ICONWORKS_VIEWER = 1
' Editor's Information Array and Color palette array
Global Iconinfo(S) As ICONRECORD
Global Colors(47) As Long
Global MouseColors(3) As Long
Global ToolInProcess As Integer
Global MovingSelection As Integer
Global Selecting As Integer
Global Moveable As Integer
Global Opaque As Integer
Global CurrentTool As Integer
Global CurrentIcon As Integer
Global Brushsize As Integer
Global PixelSize As Integer
Global X1Region As Integer
Global Y1Region As Integer
Global X2Region As Integer
Global Y2Region As Integer
Global XMoveSelection As Integer
Global YMoveSelection As Integer
Global X1SelectFrom As Integer
Global Y1SelectFrom As Integer
Global X2SelectFrom As Integer
Global Y2SelectFrom As Integer
Global LastX1 As Integer
Global LastY1 As Integer
Global LastX2 As Integer
Global LastY2 As Integer
Global LastXpix As Integer
Global LastYpix As Integer
Global DoubleClicked As Integer
Global Colorindex As Integer
Global MonoHdc As Integer
Global MonoHbm As Integer
Global ImageSize As Integer
Global XCenter As Single
Global YCenter As Single
Global Aspect As Single
Global Radius As Single
Global ColorString As string

Global MaxIcons As Integer
Global IconRows As Integer
Global IconColumns As Integer
Global MinViewerWidth As Integer
Global MinViewerHeight As Integer
Global ShowingAllIcons As Integer

Global MainForm As Integer
Global EditorLoaded As Integer
Global ViewerLoaded As Integer
Global ColorPaletteLoaded As Integer
Global EditorInitialized As Integer
Global VLastChanged As Integer
Global ELastChanged As Integer
Global NumColorsIs256 As Integer
Global Text As String
Global CRLF As String
Global A_TAB As String

' Visual Basic global constant file. This file can be loaded into a code module.

' Some constants are commented out because they have duplicates (e.g., NONE appears several places).

' If you are updating a Visual Basic application written with an older version, you should replace your global constants with the constants in this file.

' General
Clipboard formats
Global Const CF_LINK = &HBF00
Global Const CF_TEXT = 1
Global Const CF_BITMAP = 2
Global Const CF_METAFILE = 3
Global Const CF_DIB = 8
Global Const CF_PALETTE = 9

DragOver
Global Const ENTER = 0
Global Const LEAVE = 1
Global Const OVER = 2

Drag (controls)
Global Const CANCEL = 0
Global Const BEGIN_DRAG = 1
Global Const END_DRAG = 2

Show parameters
Global Const MODAL = 1
Global Const MODELESS = 0

Arrange Method
for MDI Forms
Global Const CASCADE = 0
Global Const TILE_HORIZONTAL = 1
Global Const TILE_VERTICAL = 2
Global Const ARRANGE_ICONS = 3

ZOrder Method
Global Const BRINGTOFRONT = 0
Global Const SENDTOBACK = 1

Key Codes
Global Const KEY_LBUTTON = &H1
Global Const KEY_RBUTTON = &H2
Global Const KEY_CANCEL = &H3
Global Const KEY_MBUTTON = &H4
Global Const KEY_BACK = &H8
Global Const KEY_TAB = &H9
Global Const KEY_CLEAR = &HC
Global Const KEY_RETURN = &HD
Global Const KEY_SHIFT = &H10
Global Const KEY_CONTROL = &H11
Global Const KEY_MENU = &H12
Global Const KEY_PAUSE = &H13
Global Const KEY_CAPITAL = &H14
Global Const KEY_ESCAPE = &H1B
Global Const KEY_SPACE = &H20
Global Const KEY_PRIOR = &H21
Global Const KEY_NEXT = &H22
Global Const KEY_END = &H23
Global Const KEY_HOME = &H24
Global Const KEY_LEFT = &H25
Global Const KEY_UP = &H26
Global Const KEY_RIGHT = &H27
Global Const KEY_DOWN = &H28
Global Const KEY_SELECT = &H29
Global Const KEY_PRINT = &H2A
Global Const KEY_EXECUTE = &H2B
Global Const KEY_SNAPSHOT = &H2C
Global Const KEY_INSERT = &H2D
Global Const KEY_DELETE = &H2E
Global Const KEY_HELP = &H2F

KEY_A thru KEY_Z are the same as their ASCII equivalents: 'A' thru 'Z'
KEY_0 thru KEY_9 are the same as their ASCII equivalents: '0' thru '9'

Global Const KEY_NUMPAD0 = &H60
Global Const KEY_NUMPAD1 = &H61
Global Const KEY_NUMPAD2 = &H62
Global Const KEY_NUMPAD3 = &H63
Global Const KEY_NUMPAD4 = &H64
Global Const KEY_NUMPAD5 = &H65
Global Const KEY_NUMPAD6 = &H66
Global Const KEY_NUMPAD7 = &H67
Global Const KEY_NUMPAD8 = &H68
Global Const KEY_NUMPAD9 = &H69
Global Const KEY_MULTIPLY = &H6A
Global Const KEY_ADD = &H6B
Global Const KEY_SEPAREATOR = &H6C
Global Const KEY_SUBTRACT = &H6D
Global Const KEY_DECIMAL = &H6E
Global Const KEY_DIVIDE = &H6F
Global Const KEY_F1 = &H70
Global Const KEY_F2 = &H71
Global Const KEY_F3 = &H72
Global Const KEY_F4 = &H73
Global Const KEY_F5 = &H74
Global Const KEY_F6 = &H75
Global Const KEY_F7 = &H76
Global Const KEY_F8 = &H77
Global Const KEY_F9 = &H78
Global Const KEY_F10 = &H79
Global Const KEY_F11 = &H7A
Global Const KEY_F12 = &H7B
Global Const KEY_F13 = &H7C
Global Const KEY_F14 = &H7D
Global Const KEY_F15 = &H7E
Global Const KEY_F16 = &H7F

Global Const KEY_NUMLOCK = &H90

' Variant VarType tags

Global Const V_EMPTY = 0
Global Const V_NULL = 1
Global Const V_INTEGER = 2
Global Const V_LONG = 3
Global Const V_SINGLE = 4
Global Const V_DOUBLE = 5
Global Const V_CURRENCY = 6
Global Const V_DATE = 7
Global Const V_STRING = 8

' Event Parameters

' ErrNum (LinkError)

Global Const WRONG_FORMAT = 1
Global Const DDE_SOURCE_CLOSED = 6
Global Const TOO_MANY_LINKS = 7
Global Const DATA_TRANSFER_FAILED = 8

' QueryUnload

Global Const FORM_CONTROLMENU = 0
Global Const FORM_CODE = 1
Global Const APP_WINDOWS = 2
Global Const APP_TASKMANAGER = 3
Global Const FORM_MDIFORM = 4

' Properties

' Colors

Global Const BLACK = &HO&
Global Const RED = &HFF&
Global Const GREEN = &HFF00&
Global Const YELLOW = &HFFFF&
Global Const BLUE = &HFF0000
Global Const MAGENTA = &HFF00FF
Global Const CYAN = &HFF00FF
Global Const WHITE = &HFFFFFF

' System Colors

Global Const SCROLL_BARS = &H80000000  ' Scroll-bars gray area.
Global Const DESKTOP = &H80000001       ' Desktop.
Global Const ACTIVE_TITLE_BAR = &H80000002  ' Active window caption.
Global Const INACTIVE.Title.Bar = &H80000003
Global Const MENU.Bar = &H80000004
Global Const WINDOW.BG = &H80000005
Global Const WINDOW.Frame = &H80000006
Global Const MENU.Text = &H80000007
Global Const WINDOW.Text = &H80000008
Global Const TITLE.Bar.Text = &H80000009
Global Const ACTIVE.BORDER = &H8000000A
Global Const INACTIVE.BORDER = &H8000000B
Global Const APPLICATION.workspace = &H8000000C
Global Const HIGHLIGHT = &H8000000D
Global Const HIGHLIGHT.Text = &H8000000E
Global Const BUTTON.FACE = &H8000000F
Global Const BUTTON.SHADE = &H80000010
Global Const GRAY.Text = &H80000011
Global Const BUTTON.Text = &H80000012

if the current display driver does not support
Enumerated Types

' Align (picture box)
Global Const NONE = 0
Global Const ALIGN.TOP = 1
Global Const ALIGN.BOTTOM = 2

' Alignment
Global Const LEFT.JUSTIFY = 0 ' 0 - Left Justify
Global Const RIGHT.JUSTIFY = 1 ' 1 - Right Justify
Global Const CENTER = 2 ' 2 - Center

' BorderStyle (form)
Global Const NONE = 0 ' 0 - None
Global Const FIXED.SINGLE = 1 ' 1 - Fixed Single
Global Const SIZABLE = 2 ' 2 - Sizable (Forms only)
Global Const FIXED.DOUBLE = 3 ' 3 - Fixed Double (Forms only)

' BorderStyle (Shape and Line)
Global Const TRANSPARENT = 0 ' 0 - Transparent
Global Const SOLID = 1 ' 1 - Solid
Global Const DASH = 2 ' 2 - Dash
Global Const DOT = 3 ' 3 - Dot
Global Const DASH.DOT = 4 ' 4 - Dash-Dot
Global Const DASH.DOT.DOT = 5 ' 5 - Dash-Dot-Dot
Global Const INSIDE.SOLID = 6 ' 6 - Inside Solid

' MousePointer
Global Const DEFAULT = 0 ' 0 - Default
Global Const ARROW = 1 ' 1 - Arrow
Global Const CROSSHAI R = 2 ' 2 - Cross
Global Const IBEAM = 3 ' 3 - I-Beam
Global Const ICON.POINTER = 4 ' 4 - Icon
Global Const SIZE.POINTER = 5 ' 5 - Size
Global Const SIZE.NS = 6 ' 6 - Size NS
Global Const SIZE.N.E = 7 ' 7 - Size NE
Global Const SIZE.NW.SE = 8 ' 8 - Size NW SE
Global Const SIZE.W.E = 9 ' 9 - Size WE
Global Const UP.ARROW = 10 ' 10 - Up Arrow
Global Const HOURGLASS = 11 ' 11 - Hourglass
Global Const NO.DROP = 12 ' 12 - No drop

' DragMode
Global Const MANUAL = 0 ' 0 - Manual
Global Const AUTOMATIC = 1 ' 1 - Automatic

' DrawMode
Global Const BLACKNESS = 1 ' 1 - Blackness
Global Const NOT.MERGE.PEN = 2 ' 2 - Not Merge Pen
Global Const MASK.NOT.PEN = 3 ' 3 - Mask Not Pen
Global Const NOT.COPY.PEN = 4 ' 4 - Not Copy Pen
Global Const MASK.PEN.NOT = 5 ' 5 - Mask Pen Not
Global Const INVERT = 6 ' 6 - Invert
Global Const XOR.PEN = 7 ' 7 - Xor Pen
Global Const NOT_MASK_PEN = 8 ' 8 - Not Mask Pen
Global Const MASK_PEN = 9 ' 9 - Mask Pen
Global Const NOT_XOR_PEN = 10 ' 10 - Not XOR Pen
Global Const NOP = 11 ' 11 - NOP
Global Const MERGE_NOT_PEN = 12 ' 12 - Merge Not Pen
Global Const COPY_PEN = 13 ' 13 - Copy Pen
Global Const MERGE_PEN_NOT = 14 ' 14 - Merge Pen Not
Global Const MERGE_PEN = 15 ' 15 - Merge Pen
Global Const WHITENESS = 16 ' 16 - Whiteness

' DrawStyle
Global Const SOLID = 0 ' 0 - Solid
Global Const DASH = 1 ' 1 - Dash
Global Const DOT = 2 ' 2 - Dot
Global Const DASH_DOT = 3 ' 3 - Dash-Dot
Global Const DASH_DOT_DOT = 4 ' 4 - Dash-Dot-Dot
Global Const INVISIBLE = 5 ' 5 - Invisible
Global Const INSIDE_SOLID = 6 ' 6 - Inside Solid

' FillStyle
' Global Const SOLID = 0 ' 0 - Solid
Global Const TRANSPARENT = 1 ' 1 - Transparent
Global Const HORIZONTAL_LINE = 2 ' 2 - Horizontal Line
Global Const VERTICAL_LINE = 3 ' 3 - Vertical Line
Global Const UPWARD_DIAGONAL = 4 ' 4 - Upward Diagonal
Global Const DOWNWARD_DIAGONAL = 5 ' 5 - Downward Diagonal
Global Const CROSS = 6 ' 6 - Cross
Global Const DIAGONAL_CROSS = 7 ' 7 - Diagonal Cross

' LinkMode (forms and controls)
' Global Const NONE = 0 ' 0 - None
Global Const LINK_SOURCE = 1 ' 1 - Source (forms only)
Global Const LINK_AUTOMATIC = 1 ' 1 - Automatic (controls only)
Global Const LINK_MANUAL = 2 ' 2 - Manual (controls only)
Global Const LINK_NOTIFY = 3 ' 3 - Notify (controls only)

' LinkMode (kept for VB1.0 compatibility, use new constants instead)
Global Const HOT = 1 ' 1 - Hot (controls only)
Global Const SERVER = 1 ' 1 - Server (forms only)
Global Const COLD = 2 ' 2 - Cold (controls only)

' ScaleMode
Global Const USER = 0 ' 0 - User
Global Const TWIPS = 1 ' 1 - Twip
Global Const POINTS = 2 ' 2 - Point
Global Const PIXELS = 3 ' 3 - Pixel
Global Const CHARACTERS = 4 ' 4 - Character
Global Const INCHES = 5 ' 5 - Inch
Global Const MILLIMETERS = 6 ' 6 - Millimeter
Global Const CENTIMETERS = 7 ' 7 - Centimeter

' ScrollBar
' Global Const NONE = 0 ' 0 - None
Global Const HORIZONTAL = 1 ' 1 - Horizontal
Global Const VERTICAL = 2 ' 2 - Vertical
Global Const BOTH = 3 ' 3 - Both

' Shape
Global Const SHAPE_RECTANGLE = 0
Global Const SHAPE_SQUARE = 1
Global Const SHAPE_OVAL = 2
Global Const SHAPE_CIRCLE = 3
Global Const SHAPE_ROUNDED_RECTANGLE = 4
Global Const SHAPE_ROUNDED_SQUARE = 5

' WindowState
Global Const NORMAL = 0 ' 0 - Normal
Global Const MINIMIZED = 1 ' 1 - Minimized
Global Const MAXIMIZED = 2 ' 2 - Maximized

' Check Value
Global Const UNCHECKED = 0 ' 0 - Unchecked
Global Const CHECKED = 1 ' 1 - Checked
Global Const GRAYED = 2  ' 2 - Grayed

' Shift parameter masks
Global Const SHIFT_MASK = 1
Global Const CTRL_MASK = 2
Global Const ALT_MASK = 4

' Button parameter masks
Global Const LEFT_BUTTON = 1
Global Const RIGHT_BUTTON = 2
Global Const MIDDLE_BUTTON = 4

' Function Parameters
' MsgBox parameters
Global Const MB_OK = 0  ' OK button only
Global Const MB_OKCANCEL = 1  ' OK and Cancel buttons
Global Const MB_ABORTRETRYIGNORE = 2  ' Abort, Retry, and Ignore buttons
Global Const MB_YESNOCANCEL = 3  ' Yes, No, and Cancel buttons
Global Const MB_YESNO = 4  ' Yes and No buttons
Global Const MB_RETRYCANCEL = 5  ' Retry and Cancel buttons
Global Const MB_ICONSTOP = 16  ' Critical message
Global Const MB_ICONQUESTION = 32  ' Warning query
Global Const MB_ICONEXCLAMATION = 48  ' Warning message
Global Const MB_ICONINFORMATION = 64  ' Information message
Global Const MB_APPLMODAL = 0  ' Application Modal Message Box
Global Const MB_DEFBUTTON1 = 0  ' First button is default
Global Const MB_DEFBUTTON2 = 256  ' Second button is default
Global Const MB_DEFBUTTON3 = 512  ' Third button is default
Global Const MB_SYSTEMMODAL = 4096  ' System Modal

' MsgBox return values
Global Const IDOK = 1  ' OK button pressed
Global Const IDCANCEL = 2  ' Cancel button pressed
Global Const IDABORT = 3  ' Abort button pressed
Global Const IDRETRY = 4  ' Retry button pressed
Global Const IDIGNORE = 5  ' Ignore button pressed
Global Const IDYES = 6  ' Yes button pressed
Global Const IDNO = 7  ' No button pressed

' SetAttr, Dir, GetAttr functions
Global Const ATTR_NORMAL = 0
Global Const ATTR_READONLY = 1
Global Const ATTR_HIDDEN = 2
Global Const ATTR_SYSTEM = 4
Global Const ATTR_VOLUME = 8
Global Const ATTR_DIRECTORY = 16
Global Const ATTR_ARCHIVE = 32

' Grid
' ColAlignment, FixedAlignment Properties
Global Const GRID_ALIGNLEFT = 0
Global Const GRID_ALIGNRIGHT = 1
Global Const GRID_ALIGNCENTER = 2

' Fillstyle Property
Global Const GRID_SINGLE = 0
Global Const GRID_REPEAT = 1

'Data control
' Error event Response arguments
Global Const DATA_ERRCONTINUE = 0
Global Const DATA_ERRDISPLAY = 1

' Editmode property values
Global Const DATA_EDITNONE = 0
Global Const DATA_EDITMODE = 1
Global Const DATA_EDITADD = 2

' Options property values
Global Const DATA_DENYWRITE = &H1
Global Const DATA_DENYREAD = &H2
Global Const DATA_READONLY = &H4
Global Const DATA_APPENDONLY = &H8
Global Const DATA_INCONSISTENT = &H10
Global Const DATA_CONSISTENT = &H20
Global Const DATA_SQLPASSTHROUGH = &H40

Validate event Action arguments
Global Const DATA_ACTIONCANCEL = 0
Global Const DATA_ACTIONMOVEFIRST = 1
Global Const DATA_ACTIONMOVEPREVIOUS = 2
Global Const DATA_ACTIONMovenext = 3
Global Const DATA_ACTIONMOVELAST = 4
Global Const DATA_ACTIONADDNEW = 5
Global Const DATA_ACTIONUPDATE = 6
Global Const DATA_ACTIONDELETE = 7
Global Const DATA_ACTIONFIND = 8
Global Const DATA_ACTIONBOOKMARK = 9
Global Const DATA_ACTIONCLOSE = 10
Global Const DATA_ACTIONUNLOAD = 11

OLE Control
Actions
Global Const OLE_CREATE_EMBED = 0
Global Const OLE_CREATE_NEW = 0
Global Const OLE_CREATE_LINK = 1
Global Const OLE_CREATE_FROM_FILE = 1
Global Const OLE_COPY = 4
Global Const OLE_PASTE = 5
Global Const OLE_UPDATE = 6
Global Const OLE_ACTIVATE = 7
Global Const OLE_CLOSE = 9
Global Const OLE_DELETE = 10
Global Const OLE_SAVE_TO_FILE = 12
Global Const OLE_INSERT_OBJ_DLG = 14
Global Const OLE_PASTE_SPECIAL_DLG = 15
Global Const OLE_FETCH_VERBS = 17
Global Const OLE_SAVE_TO_OLE1FILE = 18

OLEType
Global Const OLE_LINKED = 0
Global Const OLE_EMBEDDED = 1
Global Const OLE_NONE = 3

OLETypeAllowed
Global Const OLE_EITHER = 2

UpdateOptions
Global Const OLE_AUTOMATIC = 0
Global Const OLE_FROZEN = 1
Global Const OLE_MANUAL = 2

AutoActivate modes
Note that OLE_ACTIVATE_GETFOCUS only applies to objects that support "inside-out" activation. See related Verb notes below.
Global Const OLE_ACTIVATE_MANUAL = 0
Global Const OLE_ACTIVATE_GETFOCUS = 1
Global Const OLE_ACTIVATE_DOUBLECLICK = 2

SizeModes
Global Const OLE_SIZE_CLIP = 0
Global Const OLE_SIZE_STRETCH = 1
Global Const OLE_SIZE_AUTOSIZE = 2

DisplayTypes
Global Const OLE_DISPLAY_CONTENT = 0
Global Const OLE_DISPLAY_ICON = 1

Update Event Constants
Global Const OLE_CHANGED = 0
Global Const OLE_SAVED = 1
Global Const OLE_CLOSED = 2
' Special Verb Values
Global Const VERB_PRIMARY = 0
Global Const VERB_SHOW = -1
Global Const VERB_OPEN = -2
Global Const VERB_HIDE = -3
Global Const VERB_INPLACEUIACTIVATE = -4
Global Const VERB_INPLACEACTIVATE = -5
'The last two verbs are for objects that support "inside-out" activation,
'meaning they can be edited in-place, and that they support being left
'in-place-active even when the input focus moves to another control or form.
'These objects actually have 2 levels of being active. "InPlace Active"
'means that the object is ready for the user to click inside it and start
'working with it. "InPlace UI-Active" means that, in addition, if the object
'has any other UI associated with it, such as floating palette windows,
'that those windows are visible and ready for use. Any number of objects
'can be "InPlace Active" at a time, although only one can be
"InPlace UI-Active".

'You can cause an object to move to either one of states programmatically by
'setting the verb property to the appropriate verb and setting
'Action=OLE_ACTIVATE.

'Also, if you set AutoActivate = OLE_ACTIVATE_GETFOCUS, the server will
'automatically be put into "InPlace UI-Active" state when the user clicks
'on or tabs into the control.

'VerbFlag Bit Masks
Global Const VERBFLAG_GRAYED = &H1
Global Const VERBFLAG_DISABLED = &H2
Global Const VERBFLAG_CHECKED = &H8
Global Const VERBFLAG_SEPARATOR = &H800

'MiscFlag Bits - OR these together as desired for special behaviors

'MEMSTORAGE causes the control to use memory to store the object while
'it is loaded. This is faster than the default (disk-tempfile),
'but can consume a lot of memory for objects whose data takes
'up a lot of space, such as the bitmap for a paint program.
Global Const OLE_MISCFLAG_MEMSTORAGE = &H1

'DISABLEINPLACE overrides the control's default behavior of allowing
'in-place activation for objects that support it. If you
'are having problems activating an object inplace, you can
'force it to always activate in a separate window by setting this
'bit
Global Const OLE_MISCFLAG_DISABLEINPLACE = &H2

'Common Dialog Control
'Action Property
Global Const DLG_FILE_OPEN = 1
Global Const DLG_FILE_SAVE = 2
Global Const DLG_COLOR = 3
Global Const DLG_FONT = 4
Global Const DLG_PRINT = 5
Global Const DLG_HELP = 6

'File Open/Save Dialog Flags
Global Const OFN_READONLY = &H1
Global Const OFN_OVERWRITEPROMPT = &H2
Global Const OFN_HIDEREADONLY = &H4
Global Const OFN_NOCHANGEDIR = &H8
Global Const OFN_SHOWHELP = &H10
Global Const OFN_NOVALIDATE = &H100
Global Const OFN_ALLOWMULTISELECT = &H200
Global Const OFN_EXTENSIONDIFFERENT = &H400
Global Const OFN_PATHMUSTEXIST = &H800
Global Const OFN_DIRMUSTEXIST = &H1000
Global Const OFN_CREATEPROMPT = &H2000
Global Const OFN_SHAREWARE = &H4000
Global Const OFN_NOREADONLYRETURN = &H8000

'Color Dialog Flags
Global Const CC_RGBINIT = &H1&
Global Const CC_FULLOPEN = &H2&
Global Const CC_PREVENTFULLOPEN = &H4&
Global Const CC_SHOWHELP = &H8&

'Fonts Dialog Flags
Global Const CF_SCREENFONTS = &H1&
Global Const CF_PRINTERFONTS = &H2&
Global Const CF_BOTH = &H3&
Global Const CF_SHOWHELP = &H4&
Global Const CF_INITTOLOGFONTSTRUCT = &H40&
Global Const CF_USESTYLE = &H80&
Global Const CF_EFFECTS = &H100&
Global Const CF_APPLY = &H200&
Global Const CF_ANISIONLY = &H400&
Global Const CF_NOVECTORFONTS = &H800&
Global Const CF_NOSIMULATIONS = &H1000&
Global Const CF_LIMITSIZE = &H2000&
Global Const CF_FORCEFONTEXIST = &H4000&
Global Const CF_WYSIWYG = &H8000&
Global Const CF_SHOWHELP = &H10000
Global Const CF_SCALABLEONLY = &H20000
Global Const CF TTONLY = &H40000
Global Const CF_SHOWHELP = &H10000
Global Const CF_INITTOLOGFONTSTRUCT = &H40&
Global Const CF_SHOWHELP = &H80&
Global Const CF_RETURNDC = &H100&
Global Const CF_RETURNIC = &H200&
Global Const CF_NEWSIZE = &H800&
Global Const CF_SHOWHELP = &H10000
Global Const CF_DISABLPSTATE = &H400&
Global Const CF_SHOWHELP = &H800&
Global Const CF_SHOWHELP = &H10000
Global Const CF_DISABLPSTATE = &H400&

'Printer Dialog Flags
Global Const PD_ALLPAGES = &H0&
Global Const PD_SELECTION = &H1&
Global Const PD_PAGESELECTION = &H2&
Global Const PD_SELECTION = &H4&
Global Const PD_PAGESELECTION = &H8&
Global Const PD_COLLATE = &H10&
Global Const PD_PRINTFILE = &H40&
Global Const PD_PRINTSETUP = &H80&
Global Const PD_PRINTSETUP = &H200&
Global Const PD_PRINTSETUP = &H400&
Global Const PD_PRINTSETUP = &H800&
Global Const PD_HIDEPRINTTOFILE = &H10000

'Help Constants
Global Const HELP_CONTEXT = &H1&
Global Const HELP_CONTEXT = &H3&
Global Const HELP_CONTEXT = &H4&
Global Const HELP_CONTEXT = &H5&
Global Const HELP_CONTEXT = &H8&
Global Const HELP_CONTEXT = &H9&
Global Const HELP_CONTEXT = &H10&
Global Const HELP_CONTEXT = &H102&
Global Const HELP_CONTEXT = &H105&

'Error Constants
Global Const CDERR_DIALOGFAILURE = -32768
Global Const CDERR_GENERALCODES = &H7FF
Global Const CDERR_STRUCTSIZ = &H7FF8
Global Const CDERR_INITIALIZATION = &H7FFD
Global Const CDERR_NOSTORE = &H7FFC
Global Const CDERR_NONULL = &H7F8B
Global Const CDERR_LOADSTRFAILURE = &H7FFA
Global Const CDERR_FINDRESFAILURE = &H7FF9
Global Const CDERR_LOADRESFAILURE = &H7FF8
Global Const CDERR_LOCKRESFAILURE = &H7FF7
Global Const CDERR_MEMALLOCFAILURE = &H7FF6
Global Const CDERR_MEMLOCKFAILURE = &H7FF5
Global Const CDERR_NOHOOK = &H7FF4
'Added for CMDIALOG.VBX
Global Const CDERR_CANCE = &H7FF3
Global Const CDERR_NODLL = &H7FF2
Global Const CDERR_ERRPROC = &H7FF1
Global Const CDERR_ALLOC = &H7FF0
Global Const CDERR_HELP = &H7FEF

Global Const PDERR_PRINTERCODES = &H6FFF
Global Const PDERR_SETUPFAILURE = &H6FFE
Global Const PDERRPARSEFAILURE = &H6FFD
Global Const PDERR_RETDEPTHFAILURE = &H6FFC
Global Const PDERR_LOADRRVFAILURE = &H6FFB
Global Const PDERR_GETDEVMODEFAIL = &H6FFA
Global Const PDERR_INITFAILURE = &H6FF9
Global Const PDERR_NODEVICES = &H6FF8
Global Const PDERR_NODEFAULTPRN = &H6FF7
Global Const PDERR_DNDMMISMATCH = &H6FF6
Global Const PDERR_CREATEICFAILURE = &H6FF5
Global Const PDERR_PRINTERNOTFOUND = &H6FF4

Global Const CFERR_CHIOSEFONTCODES = &H5FFF
Global Const CFERR_NOFONTS = &H5FFFE

Global Const FNERR_FILENAMECODES = &H4FFF
Global Const FNERR_SUBCLASSFAILURE = &H4FFE
Global Const FNERR_INVALIDFILENAME = &H4FFD
Global Const FNERR_BUFFERTOOSMALL = &H4FFC

Global Const FRERR_FINDREPLACECODES = &H3FFF
Global Const CCERR_CHOICECOLORCODES = &H2FFF