

```

frmMain - 1

Option Explicit

Private Sub cmdMenu_Click()

'save changes
Call SaveData(gstrInputDatabaseLocation)
Call ExportData(gstrOutputDatabaseLocation)

frmMain.Hide
frmMenu.Show

End Sub

Private Sub Form_Load()

tabMain.Tab = 0

'clear lists
lstSubject(0).Clear
lstSubject(1).Clear
lstStudent(0).Clear
lstStudent(1).Clear

Call ListStudents
Call ViewRadios(False)
Call ClearAll

End Sub

Private Sub Form_Unload(Cancel As Integer)

'show response dialog
gintResponse = MsgBox("Save changes?", 36, "Year 10 Predicted Grades")

'decide on action to take
If gintResponse = vbYes Then
    Call SaveData(gstrInputDatabaseLocation)
    Call ExportData(gstrOutputDatabaseLocation)
    frmMenu.Show
Else
    frmMenu.Show
End If

End Sub

Private Sub lstStudent_Click(Index As Integer)

Call ClearRadios

'select action depending on what is pressed
Select Case Index

    'first tab
    Case 0

        'find wanted student
        Call WantedStudent(Left(lstStudent(0).Text, 4))

        'update fields
        Call UpdateFields(gintCurrentStudent, gintSubjectModifier)

        lstSubject(0).Clear
        For lp1 = 0 To 9
            lstSubject(0).AddItem CaseSubjectName(Left(gstrInputSubjectCode(gintCurrentStuden
t + lp1), 2))
        Next lp1

        lblSubject(1).Caption = ""
        lblSubjectCode(1).Caption = ""
        Call ViewRadios(False)

    'second tab

```

frmMain - 2

Case 1

```
'find wanted student
Call WantedStudent(Left(lstStudent(1).Text, 4))
```

```
'search for selected subject
gstrSelectedSubject = lstSubject(1).Text
For lp1 = 0 To 9
    Select Case gstrSelectedSubject
        Case gstrInputSubjectCode(gintCurrentStudent + lp1)
            gintSubjectModifier = lp1
    End Select
Next lp1
```

```
'update with new data
Call UpdateFields(gintCurrentStudent, gintSubjectModifier)
```

```
Call ViewRadios(True)
```

End Select

End Sub

```
Private Sub lstSubject_Click(Index As Integer)
```

```
Call ClearRadios
```

```
'select action depening on tab
Select Case Index
```

```
'first tab
Case 0
```

```
gintSubjectModifier = lstSubject(0).ListIndex
gblnListClear = True
Call UpdateFields(gintCurrentStudent, gintSubjectModifier)
Call ViewRadios(True)
```

```
'show group
Select Case Mid(gstrInputSubjectCode(gintCurrentStudent + gintSubjectModifier), 7, 2)
Case "_"
    txtGroup.Text = "N/A"
Case Else
    txtGroup.Text = Mid(gstrInputSubjectCode(gintCurrentStudent + gintSubjectModifier), 7, 2)
End Select
```

```
'second tab
Case 1
```

```
lstStudent(1).Clear
```

```
'find wanted subject code
gstrWantedSubjectCode = lstSubject(1).Text
```

```
'begin loop
```

```
For lp1 = 1 To 2200
    Select Case gstrInputSubjectCode(lp1)
        Case gstrWantedSubjectCode
            lstStudent(1).AddItem gstrInputCandidateNumber(lp1) & " - " & gstrInputSurname(lp1) & ", " & gstrInputForename(lp1)
    End Select
Next lp1
```

```
Call UpdateFields(gintCurrentStudent, gintSubjectModifier)
Call ClearAll
Call ViewRadios(False)
```

```
'show subject data
lblSubjectCode(1).Caption = lstSubject(1).Text
lblSubject(1).Caption = CaseSubjectName(Left(lstSubject(1).Text, 2))
```

frmMain - 3

End Select

End Sub

Private Sub optEffort_Click(Index As Integer)

'update effort data

Select Case Index

Case 0

gstrInputEffort(gintCurrentStudent + gintSubjectModifier) = "Excellent"

Case 1

gstrInputEffort(gintCurrentStudent + gintSubjectModifier) = "Good"

Case 2

gstrInputEffort(gintCurrentStudent + gintSubjectModifier) = "Average"

Case 3

gstrInputEffort(gintCurrentStudent + gintSubjectModifier) = "Satisfactory"

Case 4

gstrInputEffort(gintCurrentStudent + gintSubjectModifier) = "Poor"

End Select

'display selected effort

optEffort(Index).Value = True

Call UpdateFields(gintCurrentStudent, gintSubjectModifier)

End Sub

Private Sub optGrade_Click(Index As Integer)

'update grades data

Select Case Index

Case 0

gstrInputGrade(gintCurrentStudent + gintSubjectModifier) = "A* to C"

Case 1

gstrInputGrade(gintCurrentStudent + gintSubjectModifier) = "C to E"

Case 2

gstrInputGrade(gintCurrentStudent + gintSubjectModifier) = "E to U"

End Select

'display selected grade

optGrade(Index).Value = True

Call UpdateFields(gintCurrentStudent, gintSubjectModifier)

End Sub

Private Sub tabMain_Click(PreviousTab As Integer)

'clear subject list box

lstSubject(1).Clear

'update gintCurrentTab variable and display

Select Case PreviousTab

Case 0

gintCurrentTab = 1

Case 1

gintCurrentTab = 0

End Select

'open list of subjects

Call ListAllSubjects(gstrSubjectListLocation)

Call ClearAll

End Sub

frmMain - 1

VERSION 5.00

Object = "{831FDD16-0C5C-11D2-A9FC-0000F8754DA1}#2.0#0"; "MSCOMCTL.OCX"

Object = "{F9043C88-F6F2-101A-A3C9-08002B2F49FB}#1.2#0"; "COMDLG32.OCX"

Object = "{BDC217C8-ED16-11CD-956C-0000C04E4C0A}#1.1#0"; "TABCTL32.OCX"

Begin VB.Form frmMain

BorderStyle = 1 'Fixed Single
Caption = "Year 10 Predicted Grades - Edit Data"
ClientHeight = 4935
ClientLeft = 150
ClientTop = 150
ClientWidth = 7275
Icon = (Icon)
LinkTopic = "Form1"
MaxButton = 0 'False
ScaleHeight = 4935
ScaleWidth = 7275
StartPosition = 2 'CenterScreen

Begin VB.CommandButton cmdMenu

Caption = "&Main Menu"
Height = 375
Left = 5640
TabIndex = 24
ToolTipText = "Return to Main Menu"
Top = 180
Width = 1455

End

Begin VB.Frame fraEffort

Caption = "&Effort"
BeginProperty Font
Name = "Verdana"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False

EndProperty

Height = 1875
Left = 5640
TabIndex = 7
Top = 2580
Width = 1455

Begin VB.OptionButton optEffort

Caption = "Poor"
Height = 195
Index = 4
Left = 120
TabIndex = 12
ToolTipText = "Current effort"
Top = 1500
Width = 1215

End

Begin VB.OptionButton optEffort

Caption = "Satisfactory"
Height = 195
Index = 3
Left = 120
TabIndex = 11
ToolTipText = "Current effort"
Top = 1200
Width = 1275

End

Begin VB.OptionButton optEffort

Caption = "Average"
Height = 195
Index = 2
Left = 120
TabIndex = 10
ToolTipText = "Current effort"
Top = 900
Width = 1215

End

```

Begin VB.OptionButton optEffort
    Caption       = "Good"
    Height        = 195
    Index         = 1
    Left          = 120
    TabIndex      = 9
    ToolTipText   = "Current effort"
    Top           = 600
    Width         = 1275
End
Begin VB.OptionButton optEffort
    Caption       = "Excellent"
    Height        = 195
    Index         = 0
    Left          = 120
    TabIndex      = 8
    ToolTipText   = "Current effort"
    Top           = 300
    Width         = 1275
End
End
Begin VB.Frame fraGrade
    Caption       = "&Grade"
    BeginProperty Font
        Name       = "Verdana"
        Size       = 8.25
        Charset    = 0
        Weight     = 700
        Underline  = 0 'False
        Italic     = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height        = 1335
    Left          = 5640
    TabIndex      = 3
    Top           = 1020
    Width         = 1455
    Begin VB.OptionButton optGrade
        Caption       = "E to U"
        Height        = 315
        Index         = 2
        Left          = 120
        TabIndex      = 6
        ToolTipText   = "Anticipated grade"
        Top           = 900
        Width         = 1155
    End
    Begin VB.OptionButton optGrade
        Caption       = "C to E"
        Height        = 315
        Index         = 1
        Left          = 120
        TabIndex      = 5
        ToolTipText   = "Anticipated grade"
        Top           = 600
        Width         = 1215
    End
    End
    Begin VB.OptionButton optGrade
        Caption       = "A* to C"
        Height        = 315
        Index         = 0
        Left          = 120
        TabIndex      = 4
        ToolTipText   = "Anticipated grade"
        Top           = 300
        Width         = 1155
    End
End
End
Begin TabDlg.SSTab tabMain
    Height        = 3675
    Left          = 180
    TabIndex      = 1

```

```

Top                = 780
Width              = 5295
_ExtentX           = 9340
_ExtentY           = 6482
_Version           = 393216
Style              = 1
Tabs               = 2
TabsPerRow         = 2
TabHeight          = 564
ShowFocusRect      = 0    'False
MouseIcon          = {Binary}
TabCaption(0)      = "Input by stu&dent"
TabPicture(0)      = {Binary}
Tab(0).ControlEnabled= -1  'True
Tab(0).Control(0)=  "lblGroup"
Tab(0).Control(0).Enabled= 0  'False
Tab(0).Control(1)=  "lblStudent(2)"
Tab(0).Control(1).Enabled= 0  'False
Tab(0).Control(2)=  "lblStudent(3)"
Tab(0).Control(2).Enabled= 0  'False
Tab(0).Control(3)=  "lstSubject(0)"
Tab(0).Control(3).Enabled= 0  'False
Tab(0).Control(4)=  "lstStudent(0)"
Tab(0).Control(4).Enabled= 0  'False
Tab(0).Control(5)=  "txtGroup"
Tab(0).Control(5).Enabled= 0  'False
Tab(0).ControlCount= 6
TabCaption(1)      = "Input by su&bje&ct"
TabPicture(1)      = {Binary}
Tab(1).ControlEnabled= 0  'False
Tab(1).Control(0)=  "lstStudent(1)"
Tab(1).Control(1)=  "lstSubject(1)"
Tab(1).Control(2)=  "lblStudent(4)"
Tab(1).Control(3)=  "lblSubject(2)"
Tab(1).ControlCount= 4
Begin VB.TextBox txtGroup
    Alignment        = 2  'Center
    BackColor        = &H00C0FFC0&
    Height           = 315
    Left             = 4560
    TabIndex         = 26
    Top              = 3060
    Width            = 495
End
Begin VB.ListBox lstStudent
    BackColor        = &H00C0FFFF&
    Height           = 2400
    Index            = 0
    Left             = 240
    TabIndex         = 23
    Top              = 960
    Width            = 2595
End
Begin VB.ListBox lstStudent
    BackColor        = &H00C0FFFF&
    Height           = 2400
    Index            = 1
    Left             = -72840
    TabIndex         = 22
    Top              = 960
    Width            = 2895
End
Begin VB.ListBox lstSubject
    BackColor        = &H00C0FFC0&
    Height           = 2010
    Index            = 0
    Left             = 2940
    TabIndex         = 17
    Top              = 960
    Width            = 2115
End
Begin VB.ListBox lstSubject

```

```

        BackColor      =    &H00C0FFC0&
        Height         =    2400
        Index          =    1
        Left           =    -74760
        TabIndex       =    2
        Top            =    960
        Width          =    1815
    End
Begin VB.Label lblStudent
    Caption           =    "Student:"
    BeginProperty Font
        Name           =    "Verdana"
        Size           =    8.25
        Charset        =    0
        Weight         =    700
        Underline      =    0    'False
        Italic         =    0    'False
        Strikethrough  =    0    'False
    EndProperty
    Height            =    315
    Index            =    4
    Left             =    -72840
    TabIndex        =    30
    Top              =    600
    Width            =    1095
End
Begin VB.Label lblStudent
    Caption           =    "Subject:"
    BeginProperty Font
        Name           =    "Verdana"
        Size           =    8.25
        Charset        =    0
        Weight         =    700
        Underline      =    0    'False
        Italic         =    0    'False
        Strikethrough  =    0    'False
    EndProperty
    Height            =    195
    Index            =    3
    Left             =    2940
    TabIndex        =    29
    Top              =    600
    Width            =    1575
End
Begin VB.Label lblStudent
    Caption           =    "Student:"
    BeginProperty Font
        Name           =    "Verdana"
        Size           =    8.25
        Charset        =    0
        Weight         =    700
        Underline      =    0    'False
        Italic         =    0    'False
        Strikethrough  =    0    'False
    EndProperty
    Height            =    195
    Index            =    2
    Left             =    240
    TabIndex        =    28
    Top              =    600
    Width            =    1575
End
Begin VB.Label lblSubject
    Caption           =    "Subject Code:"
    BeginProperty Font
        Name           =    "Verdana"
        Size           =    8.25
        Charset        =    0
        Weight         =    700
        Underline      =    0    'False
        Italic         =    0    'False
        Strikethrough  =    0    'False

```

```

        EndProperty
        Height      = 195
        Index       = 2
        Left        = -74760
        TabIndex    = 27
        Top         = 600
        Width       = 1395
    End
Begin VB.Label lblGroup
    Alignment      = 1 'Right Justify
    Caption        = "Group:"
    BeginProperty Font
        Name        = "Verdana"
        Size        = 8.25
        Charset     = 0
        Weight      = 700
        Underline    = 0 'False
        Italic      = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height        = 195
    Left          = 3660
    TabIndex      = 25
    Top           = 3120
    Width         = 735
End
End
Begin MSComctlLib.StatusBar staMain
    Align          = 2 'Align Bottom
    Height         = 315
    Left           = 0
    TabIndex       = 0
    Top            = 4620
    Width          = 7275
    _ExtentX       = 12832
    _ExtentY       = 556
    Style          = 1
    SimpleText     = "Ready"
    _Version       = 393216
    BeginProperty Panels {8E3867A5-8586-11D1-B16A-00C0F0283628}
        NumPanels    = 1
        BeginProperty Panel1 {8E3867AB-8586-11D1-B16A-00C0F0283628}
            AutoSize    = 1
            Object.Width      = 12779
            Text          = "Ready"
            TextSave       = "Ready"
        EndProperty
    EndProperty
End
End
Begin MSComDlg.CommonDialog dlgOutputDestination
    Left          = 1440
    Top           = 5040
    _ExtentX      = 847
    _ExtentY      = 847
    _Version      = 393216
    DefaultExt    = "*.csv"
    DialogTitle   = "Year 10 Predicted Grades - Export"
    FileName      = "output.csv"
    Filter        = "CSV Files (*.csv)|*.csv|All Files (*.*)|*.*"
    Flags         = 34822
End
End
Begin MSComDlg.CommonDialog dlgInputSource
    Left          = 780
    Top           = 4980
    _ExtentX      = 847
    _ExtentY      = 847
    _Version      = 393216
    DefaultExt    = "*.csv"
    DialogTitle   = "Year 10 Predicted Grades - Import"
    FileName      = "input.csv"
    Filter        = "CSV Files (*.csv)|*.csv|All Files (*.*)|*.*"
    Flags         = 38916
End

```



```

        InitDir            =    "c:\work\computing\final"
End
Begin VB.Label lblSubjectCode
    Height            =    195
    Index            =    1
    Left             =    4440
    TabIndex         =    21
    Top              =    420
    Width            =    1035
End
Begin VB.Label lblCandidateNumber
    Height            =    195
    Index            =    1
    Left             =    4440
    TabIndex         =    20
    Top              =    180
    Width            =    1035
End
Begin VB.Label lblSubjectCode
    Alignment         =    1 'Right Justify
    Caption           =    "Subject Code:"
    Height            =    195
    Index            =    0
    Left             =    3300
    TabIndex         =    19
    Top              =    420
    Width            =    1035
End
Begin VB.Label lblCandidateNumber
    Alignment         =    1 'Right Justify
    Caption           =    "Candidate:"
    Height            =    195
    Index            =    0
    Left             =    3300
    TabIndex         =    18
    Top              =    180
    Width            =    1035
End
Begin VB.Label lblStudent
    Alignment         =    1 'Right Justify
    Caption           =    "Student:"
    Height            =    195
    Index            =    0
    Left             =    120
    TabIndex         =    16
    Top              =    180
    Width            =    675
End
Begin VB.Label lblSubject
    Height            =    195
    Index            =    1
    Left             =    900
    TabIndex         =    15
    Top              =    420
    Width            =    2295
End
Begin VB.Label lblStudent
    BeginProperty Font
        Name           =    "Arial"
        Size           =    8.25
        Charset        =    0
        Weight         =    400
        Underline      =    0 'False
        Italic         =    0 'False
        Strikethrough   =    0 'False
    EndProperty
    Height            =    195
    Index            =    1
    Left             =    900
    TabIndex         =    14
    Top              =    180
    Width            =    2295

```

frmMain - 7

```
End
Begin VB.Label lblSubject
    Alignment      = 1 'Right Justify
    Caption        = "Subject:"
    Height         = 195
    Index          = 0
    Left           = 120
    TabIndex       = 13
    Top            = 420
    Width          = 675
End
End
```

Student:
Subject:

Candidate:
Subject Code:

[Main Menu](#)

Input by student

Input by subject

Student:

IstStudent

Subject:

IstSubject

Group:

Grade

- ☐ A* to C
- ☐ C to E
- ☐ E to U

Effort

- ☐ Excellent
- ☐ Good
- ☐ Average
- ☐ Satisfactory
- ☐ Poor

Ready

frmMenu - 1

Option Explicit

Private Sub cmdExit_Click()

 'show response dialog

 gintResponse = MsgBox("Are you sure you want to exit?", 36, "Year 10 Predicted Grades")

 'decide on action to take

 If gintResponse = vbYes Then

 Call SaveData(gstrInputDatabaseLocation)

 Call ExportData(gstrOutputDatabaseLocation)

 End

Else

 Exit Sub

End If

End Sub

Private Sub cmdMain_Click()

 'display data editing form

 frmMenu.Hide

 frmMain.Show

End Sub

Private Sub cmdOptions_Click()

 'display options form

 frmMenu.Hide

 frmOptions.Show

End Sub

Private Sub cmdPrint_Click()

 'append filename to end

 Dim strFullWordPath As String

 strFullWordPath = gstrWordLocation & " " & gstrOutputDocumentLocation

 'open letter.doc with Microsoft Word

 Call Shell(strFullWordPath, vbMaximizedFocus)

End Sub

Private Sub cmdView_Click()

 'display viewing form

 frmMenu.Hide

 frmView.Show

End Sub

Private Sub Form_Load()

 If Len(App.Path) < 4 Then

 gstrAppPath = App.Path & " "

 Else

 gstrAppPath = App.Path & "\"

 End If

 Call LoadSettings

 If Exists(gstrInputDatabaseLocation) = False Then

 MsgBox "You appear to be running this program for the first time. Please find the student database file you wish to use using the dialog box provided.", vbInformation, "Year 10 Predicted Grades"

 On Error GoTo CancelError

 dlgBasicDatabaseLocation.ShowOpen

frmMenu - 2

```
gstrBasicDatabaseLocation = dlgBasicDatabaseLocation.filename

On Error Resume Next

Call DatabaseSize(gstrBasicDatabaseLocation)

Select Case gintNumberOfFields
Case 4
    Call Add2UnknownFields(gstrBasicDatabaseLocation)
Case Else
    MsgBox "Student database is corrupt.", vbCritical, "Year 10 Predicted Grades"
End
End Select

End If

Call CheckSettings

'create settings file
Open gstrSettingsLocation For Output As #1
    Print #1, gstrOutputDocumentLocation
    Print #1, gstrInputDatabaseLocation
    Print #1, gstrOutputDatabaseLocation
    Print #1, gstrSubjectListLocation
    Print #1, gstrWordLocation
Close #1

'select data source and import
Call LoadData(gstrInputDatabaseLocation)

'display title and version number
lblVersion.Caption = "(c) Tom Robinson 2000, v" & App.Major & "." & App.Minor & "." & App.Revision

Exit Sub

CancelError:
End

End Sub

Private Sub Form_Unload(Cancel As Integer)

'show response dialog
gintResponse = MsgBox("Save changes?", 36, "Year 10 Predicted Grades")

'decide on action to take
If gintResponse = vbYes Then
    Call SaveData(gstrInputDatabaseLocation)
    Call ExportData(gstrOutputDatabaseLocation)
End
Else
    End
End If

End Sub
```

frmMenu - 1

VERSION 5.00

Object = "{F9043C88-F6F2-101A-A3C9-08002B2F49FB}#1.2#0"; "COMDLG32.OCX"

Begin VB.Form frmMenu

```
AutoRedraw      = -1  'True
BorderStyle     = 1   'Fixed Single
Caption        = "Year 10 Predicted Grades - Menu"
ClientHeight   = 5505
ClientLeft     = 45
ClientTop      = 330
ClientWidth    = 4140
Icon           = (Icon)
LinkTopic      = "Form1"
MaxButton      = 0    'False
ScaleHeight    = 5505
ScaleWidth     = 4140
StartupPosition = 2   'CenterScreen
```

Begin VB.CommandButton cmdPrint

```
Height = 855
Left   = 300
Picture = (Icon)
Style  = 1  'Graphical
TabIndex = 2
ToolTipText = "Print Letters"
Top    = 2160
Width  = 915
```

End

Begin VB.CommandButton cmdView

```
Height = 855
Left   = 300
Picture = (Icon)
Style  = 1  'Graphical
TabIndex = 1
ToolTipText = "View Data"
Top    = 1200
Width  = 915
```

End

Begin VB.CommandButton cmdMain

```
Height = 855
Left   = 300
Picture = (Icon)
Style  = 1  'Graphical
TabIndex = 0
ToolTipText = "Edit Data"
Top    = 240
Width  = 915
```

End

Begin VB.CommandButton cmdExit

```
Height = 855
Left   = 300
Picture = (Icon)
Style  = 1  'Graphical
TabIndex = 4
ToolTipText = "Save and Exit"
Top    = 4080
Width  = 915
```

End

Begin VB.CommandButton cmdOptions

```
Height = 855
Left   = 300
Picture = (Icon)
Style  = 1  'Graphical
TabIndex = 3
ToolTipText = "File Locations"
Top    = 3120
Width  = 915
```

End

Begin MSComDlg.CommonDialog dlgBasicDatabaseLocation

```
Left = 3660
Top = 0
_ExtentX = 847
_ExtentY = 847
_Version = 393216
```

```

        CancelError      =   -1   'True
        DefaultExt       =   "*.csv"
        DialogTitle      =   "Student Database Location"
        FileName         =   "input.csv"
        Filter           =   "CSV Files (*.csv)|*.csv|All Files (*.*)|*.*"
        Flags             =   38916
    End
Begin VB.Label lblVersion
    Alignment            =   2   'Center
    ForeColor           =   &H00808080&
    Height              =   255
    Left                =   60
    TabIndex            =   15
    Top                 =   5160
    Width               =   4035
End
Begin VB.Label lblPrint
    Caption              =   "Using Microsoft Word merge tools."
    Height              =   195
    Index               =   1
    Left                =   1380
    TabIndex            =   14
    Top                 =   2640
    Width               =   2475
End
Begin VB.Label lblPrint
    Caption              =   "Print Letters"
    BeginProperty Font
        Name              =   "Times New Roman"
        Size              =   15.75
        Charset           =   0
        Weight            =   700
        Underline         =   0   'False
        Italic            =   0   'False
        Strikethrough     =   0   'False
    EndProperty
    Height              =   315
    Index               =   0
    Left                =   1380
    TabIndex            =   13
    Top                 =   2280
    Width               =   2475
End
Begin VB.Label lblView
    Caption              =   "View all the data at a glance."
    Height              =   195
    Index               =   1
    Left                =   1380
    TabIndex            =   12
    Top                 =   1680
    Width               =   2475
End
Begin VB.Label lblView
    Caption              =   "View Data"
    BeginProperty Font
        Name              =   "Times New Roman"
        Size              =   15.75
        Charset           =   0
        Weight            =   700
        Underline         =   0   'False
        Italic            =   0   'False
        Strikethrough     =   0   'False
    EndProperty
    Height              =   315
    Index               =   0
    Left                =   1380
    TabIndex            =   11
    Top                 =   1320
    Width               =   2475
End
Begin VB.Label lblExit
    Caption              =   "For when you have finished."

```

```

        Height          = 195
        Index           = 1
        Left            = 1380
        TabIndex        = 10
        Top             = 4560
        Width           = 2535
End
Begin VB.Label lblExit
    Caption             = "Save and Exit"
    BeginProperty Font
        Name             = "Times New Roman"
        Size              = 15.75
        Charset           = 0
        Weight            = 700
        Underline         = 0 'False
        Italic            = 0 'False
        Strikethrough     = 0 'False
    EndProperty
    Height              = 315
    Index              = 0
    Left               = 1380
    TabIndex           = 9
    Top                = 4200
    Width              = 2535
End
Begin VB.Label lblOptions
    Caption             = "Use this to locate necessary files."
    Height              = 195
    Index              = 1
    Left               = 1380
    TabIndex           = 8
    Top                = 3600
    Width              = 2475
End
Begin VB.Label lblOptions
    Caption             = "File Locations"
    BeginProperty Font
        Name             = "Times New Roman"
        Size              = 15.75
        Charset           = 0
        Weight            = 700
        Underline         = 0 'False
        Italic            = 0 'False
        Strikethrough     = 0 'False
    EndProperty
    Height              = 315
    Index              = 0
    Left               = 1380
    TabIndex           = 7
    Top                = 3240
    Width              = 2475
End
Begin VB.Label lblMain
    Caption             = "Edit, print, save and export."
    Height              = 195
    Index              = 1
    Left               = 1380
    TabIndex           = 6
    Top                = 720
    Width              = 2475
End
Begin VB.Label lblMain
    Caption             = "Edit Data"
    BeginProperty Font
        Name             = "Times New Roman"
        Size              = 15.75
        Charset           = 0
        Weight            = 700
        Underline         = 0 'False
        Italic            = 0 'False
        Strikethrough     = 0 'False
    EndProperty

```


frmMenu - 4

Height	=	315
Index	=	0
Left	=	1380
TabIndex	=	5
Top	=	360
Width	=	2475
End		
End		



Edit Data

Edit, print, save and export.



View Data

View all the data at a glance.



Print Letters

Using Microsoft Word merge tools.



File Locations

Use this to locate necessary files.



Save and Exit

For when you have finished.

frmOptions - 1

Option Explicit

Private Sub cmbBrowseForDocument_Click()

On Error GoTo CancelError

'show common dialog box
dlgLocateDocument.ShowOpen

'assign to variable and update text box
gstrOutputDocumentLocation = dlgLocateDocument.filename
txtDocumentLocation.Text = gstrOutputDocumentLocation

Exit Sub

CancelError:
Exit Sub

End Sub

Private Sub cmbBrowseOutputDatabase_Click()

On Error GoTo CancelError

'show common dialog box
dlgOutputDatabaseLocation.ShowOpen

'assign to variable and update text box
gstrOutputDatabaseLocation = dlgOutputDatabaseLocation.filename
txtOutputDatabaseLocation.Text = gstrOutputDatabaseLocation

Exit Sub

CancelError:
Exit Sub

End Sub

Private Sub cmdBrowseForInputDatabase_Click()

On Error GoTo CancelError

'show common dialog box
dlgInputDatabaseLocation.ShowOpen

'assign to variable and update text box
gstrInputDatabaseLocation = dlgInputDatabaseLocation.filename
txtInputDatabaseLocation.Text = gstrInputDatabaseLocation

Exit Sub

CancelError:
Exit Sub

End Sub

Private Sub cmdCancel_Click()

'hide options form without saving changes
frmOptions.Hide
frmMenu.Show

End Sub

Private Sub cmdOK_Click()

'save settings
Call SaveSettings

'hide options form
frmOptions.Hide
frmMenu.Show

frmOptions - 2

End Sub

Private Sub Form_Load()

'set common dialog default to application path
dlgInputDatabaseLocation.InitDir = App.Path
dlgOutputDatabaseLocation.InitDir = App.Path
dlgLocateDocument.InitDir = App.Path

'load location settings
Call LoadSettings

'update text boxes
txtDocumentLocation.Text = gstrOutputDocumentLocation
txtInputDatabaseLocation.Text = gstrInputDatabaseLocation
txtOutputDatabaseLocation.Text = gstrOutputDatabaseLocation

End Sub

Private Sub Form_Unload(Cancel As Integer)

frmMenu.Show

End Sub

frmOptions - 1

VERSION 5.00

Object = "{F9043C88-F6F2-101A-A3C9-08002B2F49FB}#1.2#0"; "COMDLG32.OCX"

Begin VB.Form frmOptions

```
BorderStyle      = 1  'Fixed Single
Caption          = "Year 10 Predicted Grades - File Locations"
ClientHeight     = 3240
ClientLeft       = 45
ClientTop        = 330
ClientWidth      = 5475
Icon             = (Icon)
LinkTopic        = "Form1"
MaxButton        = 0  'False
ScaleHeight      = 3240
ScaleWidth       = 5475
StartupPosition  = 2  'CenterScreen
```

Begin VB.Frame fraDocumentLocation

```
Caption          = "Output Document Location"
Height           = 735
Left             = 120
TabIndex         = 9
Top              = 1800
Width            = 5235
```

Begin VB.CommandButton cmbBrowseForDocument

```
Caption          = "Bro&wse..."
Height           = 315
Left             = 3900
TabIndex         = 4
ToolTipText      = "Locate the Output document"
Top              = 300
Width            = 1215
```

End

Begin VB.TextBox txtDocumentLocation

```
Height           = 285
Left             = 120
Locked           = -1  'True
TabIndex         = 10
TabStop          = 0  'False
Top              = 300
Width            = 3675
```

End

End

Begin VB.Frame fraInputDatabaseLocation

```
Caption          = "Input Database Location"
Height           = 735
Left             = 120
TabIndex         = 7
Top              = 120
Width            = 5235
```

Begin VB.TextBox txtInputDatabaseLocation

```
Height           = 285
Left             = 120
Locked           = -1  'True
TabIndex         = 8
TabStop          = 0  'False
Top              = 300
Width            = 3675
```

End

Begin VB.CommandButton cmdBrowseForInputDatabase

```
Caption          = "B&rowse..."
Height           = 315
Left             = 3900
TabIndex         = 2
ToolTipText      = "Locate the Input Database"
Top              = 300
Width            = 1215
```

End

End

Begin VB.Frame fraOutputDatabaseLocation

```
Caption          = "Output Database Location"
Height           = 735
Left             = 120
TabIndex         = 5
```

```

Top           = 960
Width         = 5235
Begin VB.CommandButton cmbBrowseOutputDatabase
    Caption     = "Br&owse..."
    Height      = 315
    Left        = 3900
    TabIndex    = 3
    ToolTipText = "Locate the Output Database"
    Top         = 300
    Width       = 1215
End
Begin VB.TextBox txtOutputDatabaseLocation
    Height      = 285
    Left        = 120
    Locked      = -1 'True
    TabIndex    = 6
    TabStop     = 0 'False
    Top         = 300
    Width       = 3675
End
End
Begin VB.CommandButton cmdCancel
    Cancel      = -1 'True
    Caption     = "Cancel"
    Height      = 375
    Left        = 4020
    TabIndex    = 1
    Top         = 2700
    Width       = 1215
End
Begin VB.CommandButton cmdOK
    Caption     = "OK"
    Height      = 375
    Left        = 2700
    TabIndex    = 0
    Top         = 2700
    Width       = 1215
End
Begin MSComDlg.CommonDialog dlgLocateDocument
    Left        = 660
    Top         = 2640
    _ExtentX    = 847
    _ExtentY    = 847
    _Version    = 393216
    CancelError = -1 'True
    DefaultExt  = "*.doc"
    DialogTitle = "Output Document Location"
    FileName    = "grades.doc"
    Filter      = "Word Documents (*.doc)|*.doc|All Files (*.*)|*.*"
    Flags       = 4228
End
Begin MSComDlg.CommonDialog dlgInputDatabaseLocation
    Left        = 1140
    Top         = 2640
    _ExtentX    = 847
    _ExtentY    = 847
    _Version    = 393216
    CancelError = -1 'True
    DefaultExt  = "*.csv"
    DialogTitle = "Input Database Location"
    FileName    = "input.csv"
    Filter      = "CSV Files (*.csv)|*.csv|All Files (*.*)|*.*"
    Flags       = 38916
End
Begin MSComDlg.CommonDialog dlgOutputDatabaseLocation
    Left        = 1620
    Top         = 2640
    _ExtentX    = 847
    _ExtentY    = 847
    _Version    = 393216
    CancelError = -1 'True
    DefaultExt  = "*.csv"

```

frmOptions - 3

```
    DialogTitle    =    "Output Database Location"
    FileName       =    "output.csv"
    Filter         =    "CSV Files (*.csv)|*.csv|All Files (*.*)|*.*"
    Flags          =    34822
End
End
```

Input Database Location

Browse...

Output Database Location

Browse...

Output Document Location

Browse...

OK

Cancel

frmView - 1

Option Explicit

Private Sub cmdBack_Click()

'return to menu
frmView.Hide
frmMenu.Show

End Sub

Private Sub cmdDisplayInput_Click()

'set up form
flexView.Visible = False
cmdDisplayOutput.Enabled = False
cmdDisplayInput.Enabled = False
cmdBack.Enabled = False
flexView.Visible = False
prgLoad.Visible = True

'set properties of grid
With flexView
 .Clear
 .Cols = 6
 .Rows = 2201
 .FixedCols = 0
End With

prgLoad.Max = flexView.Rows

'create column headers
flexView.Row = 0
flexView.Col = 0
flexView.Text = "Subject Code"
flexView.Col = 1
flexView.Text = "Surname"
flexView.Col = 2
flexView.Text = "Forename"
flexView.Col = 3
flexView.Text = "Candidate Number"
flexView.Col = 4
flexView.Text = "Grade"
flexView.Col = 5
flexView.Text = "Effort"

'display data on grid
For lp1 = 1 To 2200

 flexView.Row = lp1
 flexView.Col = 0
 flexView.Text = gstrInputSubjectCode(lp1)
 flexView.Col = 1
 flexView.Text = gstrInputSurname(lp1)
 flexView.Col = 2
 flexView.Text = gstrInputForename(lp1)
 flexView.Col = 3
 flexView.Text = gstrInputCandidateNumber(lp1)
 flexView.Col = 4
 flexView.Text = gstrInputGrade(lp1)
 flexView.Col = 5
 flexView.Text = gstrInputEffort(lp1)

 prgLoad.Value = lp1

Next lp1

'set up form
flexView.Visible = True
prgLoad.Visible = False
cmdDisplayInput.Enabled = False
cmdBack.Enabled = True
cmdDisplayOutput.Enabled = True

frmView - 2

End Sub

Private Sub cmdDisplayOutput_Click()

```
'set up form
cmdDisplayOutput.Enabled = False
cmdDisplayInput.Enabled = False
cmdBack.Enabled = False
flexView.Visible = True
prgLoad.Visible = True
```

```
'set grid properties
With flexView
    .Clear
    .Cols = 32
    .Rows = 221
    .FixedCols = 1
End With
```

prgLoad.Max = flexView.Rows

```
'create column headers
flexView.Row = 0
flexView.Col = 0
flexView.Text = "Name"
flexView.Col = 1
flexView.Text = "Candidate Number"
flexView.Col = 2
flexView.Text = "Subject (1)"
flexView.Col = 3
flexView.Text = "Grade (1)"
flexView.Col = 4
flexView.Text = "Effort (1)"
flexView.Col = 5
flexView.Text = "Subject (2)"
flexView.Col = 6
flexView.Text = "Grade (2)"
flexView.Col = 7
flexView.Text = "Effort (2)"
flexView.Col = 8
flexView.Text = "Subject (3)"
flexView.Col = 9
flexView.Text = "Grade (3)"
flexView.Col = 10
flexView.Text = "Effort (3)"
flexView.Col = 11
flexView.Text = "Subject (4)"
flexView.Col = 12
flexView.Text = "Grade (4)"
flexView.Col = 13
flexView.Text = "Effort (4)"
flexView.Col = 14
flexView.Text = "Subject (5)"
flexView.Col = 15
flexView.Text = "Grade (5)"
flexView.Col = 16
flexView.Text = "Effort (5)"
flexView.Col = 17
flexView.Text = "Subject (6)"
flexView.Col = 18
flexView.Text = "Grade (6)"
flexView.Col = 19
flexView.Text = "Effort (6)"
flexView.Col = 20
flexView.Text = "Subject (7)"
flexView.Col = 21
flexView.Text = "Grade (7)"
flexView.Col = 22
flexView.Text = "Effort (7)"
flexView.Col = 23
flexView.Text = "Subject (8)"
```

frmView - 3

```
flexView.Col = 24
flexView.Text = "Grade (8)"
flexView.Col = 25
flexView.Text = "Effort (8)"
flexView.Col = 26
flexView.Text = "Subject (9)"
flexView.Col = 27
flexView.Text = "Grade (9)"
flexView.Col = 28
flexView.Text = "Effort (9)"
flexView.Col = 29
flexView.Text = "Subject (10)"
flexView.Col = 30
flexView.Text = "Grade (10)"
flexView.Col = 31
flexView.Text = "Effort (10)"
```

```
'display data on grid
For lp1 = 1 To 220
    flexView.Row = lp1
    flexView.Col = 0
    flexView.Text = gstrOutputName(lp1)
    flexView.Col = 1
    flexView.Text = gstrOutputCandidateNumber(lp1)
    flexView.Col = 2
    flexView.Text = gstrOutputSubject(1, lp1)
    flexView.Col = 3
    flexView.Text = gstrOutputGrade(1, lp1)
    flexView.Col = 4
    flexView.Text = gstrOutputEffort(1, lp1)
    flexView.Col = 5
    flexView.Text = gstrOutputSubject(2, lp1)
    flexView.Col = 6
    flexView.Text = gstrOutputGrade(2, lp1)
    flexView.Col = 7
    flexView.Text = gstrOutputEffort(2, lp1)
    flexView.Col = 8
    flexView.Text = gstrOutputSubject(3, lp1)
    flexView.Col = 9
    flexView.Text = gstrOutputGrade(3, lp1)
    flexView.Col = 10
    flexView.Text = gstrOutputEffort(3, lp1)
    flexView.Col = 11
    flexView.Text = gstrOutputSubject(4, lp1)
    flexView.Col = 12
    flexView.Text = gstrOutputGrade(4, lp1)
    flexView.Col = 13
    flexView.Text = gstrOutputEffort(4, lp1)
    flexView.Col = 14
    flexView.Text = gstrOutputSubject(5, lp1)
    flexView.Col = 15
    flexView.Text = gstrOutputGrade(5, lp1)
    flexView.Col = 16
    flexView.Text = gstrOutputEffort(5, lp1)
    flexView.Col = 17
    flexView.Text = gstrOutputSubject(6, lp1)
    flexView.Col = 18
    flexView.Text = gstrOutputGrade(6, lp1)
    flexView.Col = 19
    flexView.Text = gstrOutputEffort(6, lp1)
    flexView.Col = 20
    flexView.Text = gstrOutputSubject(7, lp1)
    flexView.Col = 21
    flexView.Text = gstrOutputGrade(7, lp1)
    flexView.Col = 22
    flexView.Text = gstrOutputEffort(7, lp1)
    flexView.Col = 23
    flexView.Text = gstrOutputSubject(8, lp1)
    flexView.Col = 24
    flexView.Text = gstrOutputGrade(8, lp1)
    flexView.Col = 25
    flexView.Text = gstrOutputEffort(8, lp1)
```

frmView - 4

```
flexView.Col = 26
flexView.Text = gstrOutputSubject(9, lp1)
flexView.Col = 27
flexView.Text = gstrOutputGrade(9, lp1)
flexView.Col = 28
flexView.Text = gstrOutputEffort(9, lp1)
flexView.Col = 29
flexView.Text = gstrOutputSubject(10, lp1)
flexView.Col = 30
flexView.Text = gstrOutputGrade(10, lp1)
flexView.Col = 31
flexView.Text = gstrOutputEffort(10, lp1)

prgLoad.Value = lp1
```

Next lp1

```
'set up form
flexView.Visible = True
prgLoad.Visible = False
cmdDisplayInput.Enabled = True
cmdBack.Enabled = True
```

End Sub

Private Sub Form_Load()

```
'find output variables
cnt2 = 1
```

For lp3 = 1 To 2200 Step 10

```
gstrOutputCandidateNumber(cnt2) = gstrInputCandidateNumber(lp3)
gstrOutputForename(cnt2) = gstrInputForename(lp3)
gstrOutputSurname(cnt2) = gstrInputSurname(lp3)
```

```
For lp2 = 1 To 10
    gstrInputSubjectName(lp3 + (lp2 - 1)) = CaseSubjectName(Left(gstrInputSubjectCode(lp3
+ (lp2 - 1)), 2))
    gstrOutputSubject(lp2, cnt2) = gstrInputSubjectName(lp3 + (lp2 - 1))
Next lp2
```

```
For lp2 = 1 To 10
    gstrOutputGrade(lp2, cnt2) = gstrInputGrade(lp3 + (lp2 - 1))
Next lp2
```

```
For lp2 = 1 To 10
    gstrOutputEffort(lp2, cnt2) = gstrInputEffort(lp3 + (lp2 - 1))
Next lp2
```

```
cnt2 = cnt2 + 1
```

Next lp3

```
For lp3 = 1 To 220
    gstrOutputName(lp3) = gstrOutputForename(lp3) & " " & gstrOutputSurname(lp3)
Next lp3
```

End Sub

Private Sub Form_Unload(Cancel As Integer)

```
frmMenu.Show
```

End Sub

frmView - 1

VERSION 5.00

Object = "{831FDD16-0C5C-11D2-A9FC-0000F8754DA1}#2.0#0"; "MSCOMCTL.OCX"

Object = "{5E9E78A0-531B-11CF-91F6-C2863C385E30}#1.0#0"; "MSFLXGRD.OCX"

Begin VB.Form frmView

BorderStyle = 1 'Fixed Single
Caption = "Year 10 Predicted Grades - View Data"
ClientHeight = 4245
ClientLeft = 45
ClientTop = 330
ClientWidth = 6495
Icon = (Icon)
LinkTopic = "Form1"
MaxButton = 0 'False
ScaleHeight = 4245
ScaleWidth = 6495
StartupPosition = 2 'CenterScreen

Begin MSComctlLib.ProgressBar prgLoad

Height = 3495
Left = 120
TabIndex = 4
Top = 600
Width = 6255
_ExtentX = 11033
_ExtentY = 6165
_Version = 393216
Appearance = 1
Min = 1
Max = 2200
Scrolling = 1

End

Begin VB.CommandButton cmdBack

Caption = "&Main Menu"
Height = 375
Left = 2580
Picture = (Icon)
TabIndex = 2
Top = 120
Width = 1335

End

Begin VB.CommandButton cmdDisplayOutput

Caption = "View &Output Database"
Height = 375
Left = 4140
TabIndex = 1
Top = 120
Width = 2235

End

Begin MSFlexGridLib.MSFlexGrid flexView

Height = 3495
Left = 120
TabIndex = 3
Top = 600
Visible = 0 'False
Width = 6255
_ExtentX = 11033
_ExtentY = 6165
_Version = 393216
WordWrap = -1 'True
ScrollTrack = -1 'True
FocusRect = 0
HighLight = 0
AllowUserResizing = 1

End

Begin VB.CommandButton cmdDisplayInput

Caption = "View &Input Database"
Height = 375
Left = 120
TabIndex = 0
Top = 120
Width = 2235

End

End

1. 500 Hz 1. 500 Hz 1. 500 Hz 1. 500 Hz 1. 500 Hz
1. 500 Hz 1. 500 Hz 1. 500 Hz 1. 500 Hz 1. 500 Hz

1. 500 Hz 1. 500 Hz 1. 500 Hz 1. 500 Hz 1. 500 Hz
1. 500 Hz 1. 500 Hz 1. 500 Hz 1. 500 Hz 1. 500 Hz

1. 500 Hz 1. 500 Hz 1. 500 Hz 1. 500 Hz 1. 500 Hz
1. 500 Hz 1. 500 Hz 1. 500 Hz 1. 500 Hz 1. 500 Hz



modGrades - 1

Option Explicit

'loop variables

Global lp1, lp2, lp3 As Integer

'count variables

Global cnt1, cnt2 As Integer

'input arrays

Global gstrInputSubjectCode(1 To 2200) As String

Global gstrInputForename(1 To 2200) As String

Global gstrInputSurname(1 To 2200) As String

Global gstrInputCandidateNumber(1 To 2200) As String

Global gstrInputGrade(1 To 2200) As String

Global gstrInputEffort(1 To 2200) As String

Global gstrInputSubjectName(1 To 2200) As String

'output arrays

Global gstrOutputName(1 To 220) As String

Global gstrOutputSurname(1 To 220) As String

Global gstrOutputForename(1 To 220) As String

Global gstrOutputCandidateNumber(1 To 220) As String

Global gstrOutputSubject(1 To 10, 1 To 220) As String

Global gstrOutputGrade(1 To 10, 1 To 220) As String

Global gstrOutputEffort(1 To 10, 1 To 220) As String

'location variables

Global gstrSettingsLocation As String

Global gstrWordLocation As String

Global gstrOutputDocumentLocation As String

Global gstrInputDatabaseLocation As String

Global gstrOutputDatabaseLocation As String

Global gstrSubjectListLocation As String

Global gstrBasicDatabaseLocation As String

'pointer variables

Global gintCurrentStudent As Integer

Global gintSubjectModifier As Integer

'miscellaneous

Global gintCurrentTab As Integer

Global gintResponse As String

Global gstrWantedSubjectCode As String

Global gstrWantedStudent As String

Global gstrLargeSubjectList(1 To 102) As String

Global gstrSelectedSubject As String

Global mintErrorAction As Integer

Global gblnListClear As Boolean

Global gstrAppPath As String

Global gintNumberOfRecords As Integer

Global gintNumberOfFields As Integer

Public Function CaseSubjectName(val As String) As String

'decode subject abbreviations

Select Case val

Case "En"

CaseSubjectName = "English"

Case "Fr"

CaseSubjectName = "French"

Case "Gg"

CaseSubjectName = "Geography"

Case "Ma"

CaseSubjectName = "Maths"

Case "Ar"

CaseSubjectName = "Art"

Case "Pe"

CaseSubjectName = "Physical Education"

Case "Sb"

CaseSubjectName = "Double Science"

Case "Sa"

CaseSubjectName = "Single Science"

modGrades - 2

```
Case "Hi"
    CaseSubjectName = "History"
Case "Te"
    CaseSubjectName = "Technology"
Case "Rs"
    CaseSubjectName = "Religious Studies"
Case "Pt"
    CaseSubjectName = "Pottery"
Case "Ya"
    CaseSubjectName = "Youth Award Scheme"
Case "Me"
    CaseSubjectName = "Media Studies"
Case "Sp"
    CaseSubjectName = "Spanish"
Case "Sp"
    CaseSubjectName = "Japanese"
Case "Ge"
    CaseSubjectName = "German"
Case Else
    CaseSubjectName = "Unknown (" & val & ")"
End Select

End Function

Public Sub CreateStudentList(val As String)

'create list of student details:
Open val For Output As #1
    For lp1 = 1 To 2200 Step 10
        Print #1, gstrInputCandidateNumber(lp1); ","; gstrInputForename(lp1); ","; gstrInputSurname(lp1)
    Next lp1
Close #1

End Sub

Public Sub LoadSettings()

Dim intSettingsFileLength

'create settings file path
gstrSettingsLocation = gstrAppPath & "grades.ini"

'check length
Open gstrSettingsLocation For Binary As #1
    intSettingsFileLength = LOF(1)
Close

'check settings location is correct
If Exists(gstrSettingsLocation) = False Or intSettingsFileLength < 5 Then

    gstrOutputDocumentLocation = gstrAppPath & "grades.doc"
    gstrInputDatabaseLocation = gstrAppPath & "input.csv"
    gstrOutputDatabaseLocation = gstrAppPath & "output.csv"
    gstrSubjectListLocation = gstrAppPath & "subjects.csv"
    gstrWordLocation = WordLocation()

    'create settings file
    Open gstrSettingsLocation For Output As #1
        Print #1, gstrOutputDocumentLocation
        Print #1, gstrInputDatabaseLocation
        Print #1, gstrOutputDatabaseLocation
        Print #1, gstrSubjectListLocation
        Print #1, gstrWordLocation
    Close #1

Else

    'import settings from file
    Open gstrSettingsLocation For Input As #1
        Input #1, gstrOutputDocumentLocation
        Input #1, gstrInputDatabaseLocation
```


modGrades - 3

```
        Input #1, gstrOutputDatabaseLocation
        Input #1, gstrSubjectListLocation
        Input #1, gstrWordLocation
    Close #1

End If

End Sub

Public Sub CheckSettings()

    'check word path is correct
    If Exists(gstrWordLocation) = False Then
        gstrWordLocation = WordLocation
        If Exists(gstrWordLocation) = False Then
            MsgBox "Microsoft Word could not be found.", vbCritical, "Year 10 Predicted Grade
s"
        End
    End If
End If

    'check subject list location is correct
    If Exists(gstrSubjectListLocation) = False Then
        gstrSubjectListLocation = gstrAppPath & "subjects.csv"
        If Exists(gstrSubjectListLocation) = False Then
            MsgBox "Subject list could not be found.", vbCritical, "Year 10 Predicted Grades"
        End
    End If
End If

    'check input database location is correct
    If Exists(gstrInputDatabaseLocation) = False Then
        gstrInputDatabaseLocation = gstrAppPath & "input.csv"
        If Exists(gstrInputDatabaseLocation) = False Then
            MsgBox "Input database could not be found.", vbCritical, "Year 10 Predicted Grade
s"
        End
    End If
End If

    'check output document location is correct
    If Exists(gstrOutputDocumentLocation) = False Then
        gstrOutputDocumentLocation = gstrAppPath & "grades.doc"
        If Exists(gstrOutputDocumentLocation) = False Then
            MsgBox "Output document could not be found.", vbCritical, "Year 10 Predicted Grad
es"
        End
    End If
End If

End Sub

Public Sub SaveSettings()

    'save new values direct from boxes
    Open gstrSettingsLocation For Output As #1
        Print #1, frmOptions.txtDocumentLocation.Text
        Print #1, frmOptions.txtInputDatabaseLocation.Text
        Print #1, frmOptions.txtOutputDatabaseLocation.Text
        Print #1, gstrSubjectListLocation
        Print #1, gstrWordLocation
    Close #1

End Sub

Public Sub LoadData(val As String)

    'display status
    frmMain.staMain.SimpleText = "Importing data from " & val & "..."

    'open file
    Open val For Input As #1
```

modGrades - 4

```
    For cnt1 = 1 To 2200
        Input #1, gstrInputSubjectCode(cnt1), gstrInputSurname(cnt1), gstrInputForename(cnt1)
    , gstrInputCandidateNumber(cnt1), gstrInputGrade(cnt1), gstrInputEffort(cnt1)
        Next cnt1
    Close #1

'list all students
Call ListStudents

'move to first record and update fields
gintCurrentStudent = 1
gintSubjectModifier = 0
Call UpdateFields(gintCurrentStudent, gintSubjectModifier)

'display status
frmMain.staMain.SimpleText = "Ready"

End Sub

Public Sub ListStudents()

frmMain.lstStudent(0).Clear

'display list of all students
For lp1 = 1 To 2200 Step 10
    frmMain.lstStudent(0).AddItem gstrInputCandidateNumber(lp1) & " - " & gstrInputSurname(lp
1) & ", " & gstrInputForename(lp1)
Next lp1

End Sub

Public Sub SaveData(val As String)

'display status
frmMain.staMain.SimpleText = "Saving " & val & "..."

'open specified file to export data
Open val For Output As #1
    For cnt1 = 1 To 2200
        Print #1, gstrInputSubjectCode(cnt1); ","; gstrInputSurname(cnt1); ","; gstrInputFore
name(cnt1); ","; gstrInputCandidateNumber(cnt1); ","; gstrInputGrade(cnt1); ","; gstrInputEff
ort(cnt1) 'write data from arrays to disk
    Next cnt1
Close #1

'update status
frmMain.staMain.SimpleText = "Ready"

End Sub

Public Sub UpdateFields(val1 As Integer, val2 As Integer)

'display student details
frmMain.lblStudent(1).Caption = gstrInputForename(val1) & " " & gstrInputSurname(val1)
frmMain.lblCandidateNumber(1).Caption = gstrInputCandidateNumber(val1 + val2)

'display subject details
frmMain.lblSubject(1).Caption = CaseSubjectName(Left(gstrInputSubjectCode(val1 + val2), 2))
frmMain.lblSubjectCode(1).Caption = gstrInputSubjectCode(val1 + val2)

'show current grade
Select Case gstrInputGrade(val1 + val2)
    Case "A* to C"
        frmMain.optGrade(0).Value = True
    Case "C to E"
        frmMain.optGrade(1).Value = True
    Case "E to U"
        frmMain.optGrade(2).Value = True
    Case Else
        For lp1 = 1 To 3
            frmMain.optGrade(lp1 - 1).Value = False
        Next lp1
    End Select
```

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End Select

```
'display current effort
Select Case gstrInputEffort(vall + val2)
    Case "Excellent"
        frmMain.optEffort(0).Value = True
    Case "Good"
        frmMain.optEffort(1).Value = True
    Case "Average"
        frmMain.optEffort(2).Value = True
    Case "Satisfactory"
        frmMain.optEffort(3).Value = True
    Case "Poor"
        frmMain.optEffort(4).Value = True
    Case Else
```

End Select

End Sub

Public Sub WantedStudent(val As String)

```
'search input database for candidate number
For lp1 = 1 To 2200 Step 10
    Select Case gstrInputCandidateNumber(lp1)
        Case val
            gintCurrentStudent = lp1
    End Select
Next lp1
```

End Sub

Public Sub ListAllSubjects(val As String)

```
'open data file containing subject list
Open val For Input As #1
    For lp1 = 1 To 102
        Input #1, gstrLargeSubjectList(lp1)
        frmMain.lstSubject(1).AddItem gstrLargeSubjectList(lp1)
    Next lp1
Close #1
```

End Sub

Public Sub ExportData(vall As String)

```
'show status
frmMain.staMain.SimpleText = "Exporting to " & vall & "..."
```

```
'set count value
cnt2 = 1
```

```
'enter the main details
For lp3 = 1 To 2200 Step 10
```

```
    gstrOutputCandidateNumber(cnt2) = gstrInputCandidateNumber(lp3)
    gstrOutputForename(cnt2) = gstrInputForename(lp3)
    gstrOutputSurname(cnt2) = gstrInputSurname(lp3)
```

```
    For lp2 = 1 To 10
        gstrInputSubjectName(lp3 + (lp2 - 1)) = CaseSubjectName(Left(gstrInputSubjectCode(lp3 + (lp2 - 1)), 2))
        gstrOutputSubject(lp2, cnt2) = gstrInputSubjectName(lp3 + (lp2 - 1))
    Next lp2
```

```
    For lp2 = 1 To 10
        gstrOutputGrade(lp2, cnt2) = gstrInputGrade(lp3 + (lp2 - 1))
    Next lp2
```

```
    For lp2 = 1 To 10
        gstrOutputEffort(lp2, cnt2) = gstrInputEffort(lp3 + (lp2 - 1))
    Next lp2
```

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cnt2 = cnt2 + 1
Next lp3

'write to file
Open vall For Output As #1

'export column headings
Print #1, "Candidate Number"; ", "; "Name"; ", "; "Subject 1"; ", "; "Grade 1"; ", "; "Effort
1"; ", "; "Subject 2"; ", "; "Grade 2"; ", "; "Effort 2"; ", "; "Subject 3"; ", "; "Grade 3"; ", "
"; "Effort 3"; ", "; "Subject 4"; ", "; "Grade 4"; ", "; "Effort 4"; ", "; "Subject 5"; ", "; "Grade
5"; ", "; "Effort 5"; ", "; "Subject 6"; ", "; "Grade 6"; ", "; "Effort 6"; ", "; "Subject 7"; ", "
"; "Grade 7"; ", "; "Effort 7"; ", "; "Subject 8"; ", "; "Grade 8"; ", "; "Effort 8"; ", "; "Subj
ect 9"; ", "; "Grade 9"; ", "; "Effort 9"; ", "; "Subject 10"; ", "; "Grade 10"; ", "; "Effort 10"

'export data
For lp3 = 1 To 220
 gstrOutputName(lp3) = gstrOutputForename(lp3) & " " & gstrOutputSurname(lp3)
 Print #1, gstrOutputCandidateNumber(lp3); ", "; gstrOutputName(lp3); ", "; gstrOutputSu
bject(1, lp3); ", "; gstrOutputGrade(1, lp3); ", "; gstrOutputEffort(1, lp3); ", "; gstrOutputSu
bject(2, lp3); ", "; gstrOutputGrade(2, lp3); ", "; gstrOutputEffort(2, lp3); ", "; gstrOutputSu
bject(3, lp3); ", "; gstrOutputGrade(3, lp3); ", "; gstrOutputEffort(3, lp3); ", "; gstrOutputSu
bject(4, lp3); ", "; gstrOutputGrade(4, lp3); ", "; gstrOutputEffort(4, lp3); ", "; gstrOutputSu
bject(5, lp3); ", "; gstrOutputGrade(5, lp3); ", "; gstrOutputEffort(5, lp3); ", "; gstrOutputSu
bject(6, lp3); ", "; gstrOutputGrade(6, lp3); ", "; gstrOutputEffort(6, lp3); ", "; gstrOutputSu
bject(7, lp3); ", "; gstrOutputGrade(7, lp3); ", "; gstrOutputEffort(7, lp3); ", "; gstrOutputSu
bject(8, lp3); ", "; gstrOutputGrade(8, lp3); ", "; gstrOutputEffort(8, lp3); ", "; gstrOutputSu
bject(9, lp3); ", "; gstrOutputGrade(9, lp3); ", "; gstrOutputEffort(9, lp3); ", "; gstrOutputSu
bject(10, lp3); ", "; gstrOutputGrade(10, lp3); ", "; gstrOutputEffort(10, lp3)
Next lp3

Close #1

'show status
frmMain.staMain.SimpleText = "Ready"

End Sub

Public Sub ClearRadios()

For lp1 = 0 To 2
 frmMain.optGrade(lp1).Value = False
Next lp1

For lp1 = 0 To 4
 frmMain.optEffort(lp1).Value = False
Next lp1

End Sub

Public Sub ViewRadios(val As Boolean)

Select Case val

Case False

For lp1 = 0 To 2
 frmMain.optGrade(lp1).Value = False
 frmMain.optGrade(lp1).Enabled = False
Next lp1

For lp1 = 0 To 4
 frmMain.optEffort(lp1).Enabled = False
 frmMain.optEffort(lp1).Value = False
Next lp1

Case True

For lp1 = 0 To 2
 frmMain.optGrade(lp1).Enabled = True
Next lp1

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```
For lp1 = 0 To 4
    frmMain.optEffort(lp1).Enabled = True
Next lp1
```

End Select

End Sub

Public Sub ClearAll()

```
'clear data
frmMain.optGrade(0).Value = False
frmMain.optGrade(1).Value = False
frmMain.optGrade(2).Value = False
frmMain.optEffort(0).Value = False
frmMain.optEffort(1).Value = False
frmMain.optEffort(2).Value = False
frmMain.optEffort(3).Value = False
frmMain.optEffort(4).Value = False
frmMain.lblStudent(1).Caption = ""
frmMain.lblSubject(1).Caption = ""
frmMain.lblSubjectCode(1).Caption = ""
frmMain.lblCandidateNumber(1).Caption = ""
```

End Sub

Public Function WordLocation() As String

```
'find Microsoft Word path in registry
WordLocation = GetSettingString(HKEY_USERS, ".DEFAULT\Software\Microsoft\Windows\CurrentVersi
on\Extensions", "doc")
WordLocation = Left(WordLocation, (Len(WordLocation) - 6))
```

End Function

Public Function Exists(filename As String) As Boolean

On Error GoTo ErrorHandler

```
'open filename and check length
Open filename For Binary As #1
    If LOF(1) <> 0 Then Close: Exists = True: Exit Function
Close
```

```
Kill filename
Exists = False
```

Exit Function

ErrorHandler:

```
    If Err.Number = 76 Then
        Exists = False
    End If
```

End Function

Public Sub DatabaseSize(val As String)

Dim varNonsense As Variant

```
'count number of records
Open val For Input As 1
    cnt1 = 0
    While Not EOF(1)
        Line Input #1, varNonsense
        cnt1 = cnt1 + 1
    Wend
Close #1
gintNumberOfRecords = cnt1
```

```
'count number of fields
Open val For Input As 1
```

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```
    cnt1 = 0
    While Not EOF(1)
        Input #1, varNonsense
        cnt1 = cnt1 + 1
    Wend
Close #1
gintNumberOfFields = cnt1 / gintNumberOfRecords

End Sub

Public Sub Add2UnknownFields(val As String)

Dim varValue As Variant

'append extra fields and create input database
Open val For Input As 1
    Open gstrInputDatabaseLocation For Output As 2
        For lp1 = 1 To gintNumberOfRecords
            Line Input #1, varValue
            varValue = varValue & ",Unknown,Unknown"
            Print #2, varValue
        Next lp1
    Close #2
Close #1

End Sub
```

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Option Explicit

'declare constants

```
Public Const HKEY_CLASSES_ROOT = &H80000000
Public Const HKEY_CURRENT_USER = &H80000001
Public Const HKEY_LOCAL_MACHINE = &H80000002
Public Const HKEY_USERS = &H80000003
Public Const HKEY_CURRENT_CONFIG = &H80000005
Public Const HKEY_DYN_DATA = &H80000006
Public Const REG_SZ = 1
Public Const REG_BINARY = 3
Public Const REG_DWORD = 4
Public Const ERROR_SUCCESS = 0&
Public Const APINULL = 0&
Public Const INFINITE = -1&
```

'declare external functions

```
Public Declare Function RegCloseKey Lib "advapi32.dll" (ByVal hKey As Long) As Long
Public Declare Function RegCreateKey Lib "advapi32.dll" Alias "RegCreateKeyA" (ByVal hKey As Long, ByVal lpSubKey As String, phkResult As Long) As Long
Public Declare Function RegDeleteKey Lib "advapi32.dll" Alias "RegDeleteKeyA" (ByVal hKey As Long, ByVal lpSubKey As String) As Long
Public Declare Function RegDeleteValue Lib "advapi32.dll" Alias "RegDeleteValueA" (ByVal hKey As Long, ByVal lpValueName As String) As Long
Public Declare Function RegOpenKey Lib "advapi32.dll" Alias "RegOpenKeyA" (ByVal hKey As Long, ByVal lpSubKey As String, phkResult As Long) As Long
Public Declare Function RegQueryValueEx Lib "advapi32.dll" Alias "RegQueryValueExA" (ByVal hKey As Long, ByVal lpValueName As String, ByVal lpReserved As Long, lpType As Long, lpData As Any, lpcbData As Long) As Long
Public Declare Function RegSetValueEx Lib "advapi32.dll" Alias "RegSetValueExA" (ByVal hKey As Long, ByVal lpValueName As String, ByVal Reserved As Long, ByVal dwType As Long, lpData As Any, ByVal cbData As Long) As Long
```

```
Public Function GetSettingString(hKey As Long, strPath As String, strValue As String, Optional lDefault As String) As String
```

'declare variables

```
Dim hCurKey As Long
Dim lResult As Long
Dim lValueType As Long
Dim strBuffer As String
Dim lDataBufferSize As Long
Dim intZeroPos As Integer
Dim lRegResult As Long
```

'check that data exists

```
If Not IsEmpty(Default) Then
    GetSettingString = Default
Else
    GetSettingString = ""
End If
```

'search registry and build string

```
lRegResult = RegOpenKey(hKey, strPath, hCurKey)
lRegResult = RegQueryValueEx(hCurKey, strValue, 0&, lValueType, ByVal 0&, lDataBufferSize)
```

If lRegResult = ERROR_SUCCESS Then

```
    If lValueType = REG_SZ Then
        strBuffer = String(lDataBufferSize, " ")
        lResult = RegQueryValueEx(hCurKey, strValue, 0&, 0&, ByVal strBuffer, lDataBufferSize)
    )

    intZeroPos = InStr(strBuffer, Chr$(0))

    If intZeroPos > 0 Then
        GetSettingString = Left$(strBuffer, intZeroPos - 1)
    Else
        GetSettingString = strBuffer
    End If

End If
```

```
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```

```
Else
```

```
    GetSettingString = "Error!"
```

```
End If
```

```
lRegResult = RegCloseKey(hCurKey)
```

```
End Function
```