# VBA Project Report

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**Statement of the problem**

The goal of this project was to create a VBA Userform that was capable of assisting a teacher with managing grades that are collected by TA's and formatted into a specific way inside an excel spreadsheet. At the press of a button, VBA code allows the user to select certain files, which are then compiled and alphabetized into a main worksheet. From here, the user may search for grades or change grades. The user inputs either a student's last name or a student ID number. Then, they select what assignment to search for/change, or they can pull up the complete scores record for that student. The project requirements for user input validation were heavy. The code protects for many mishaps, such as the user failing to enter a certain search criteria.

**Strategy of the solution and flow chart**

The strategy to solving this problem was to write code behind various buttons on userforms. In addition, various userforms were created for the three main functions: Importing, Searching, and Grade Changing. Initially, the user is presented with the "Import Tool", and they may press a button to transfer to the "Search Tool" or "Grade Changer Tool". All the userforms were linked together with buttons that transfer the user to whatever form they wish. The main "functional" code will be shown in flow charts below for each of the three userforms (Import, Search, and Grade Change tools).
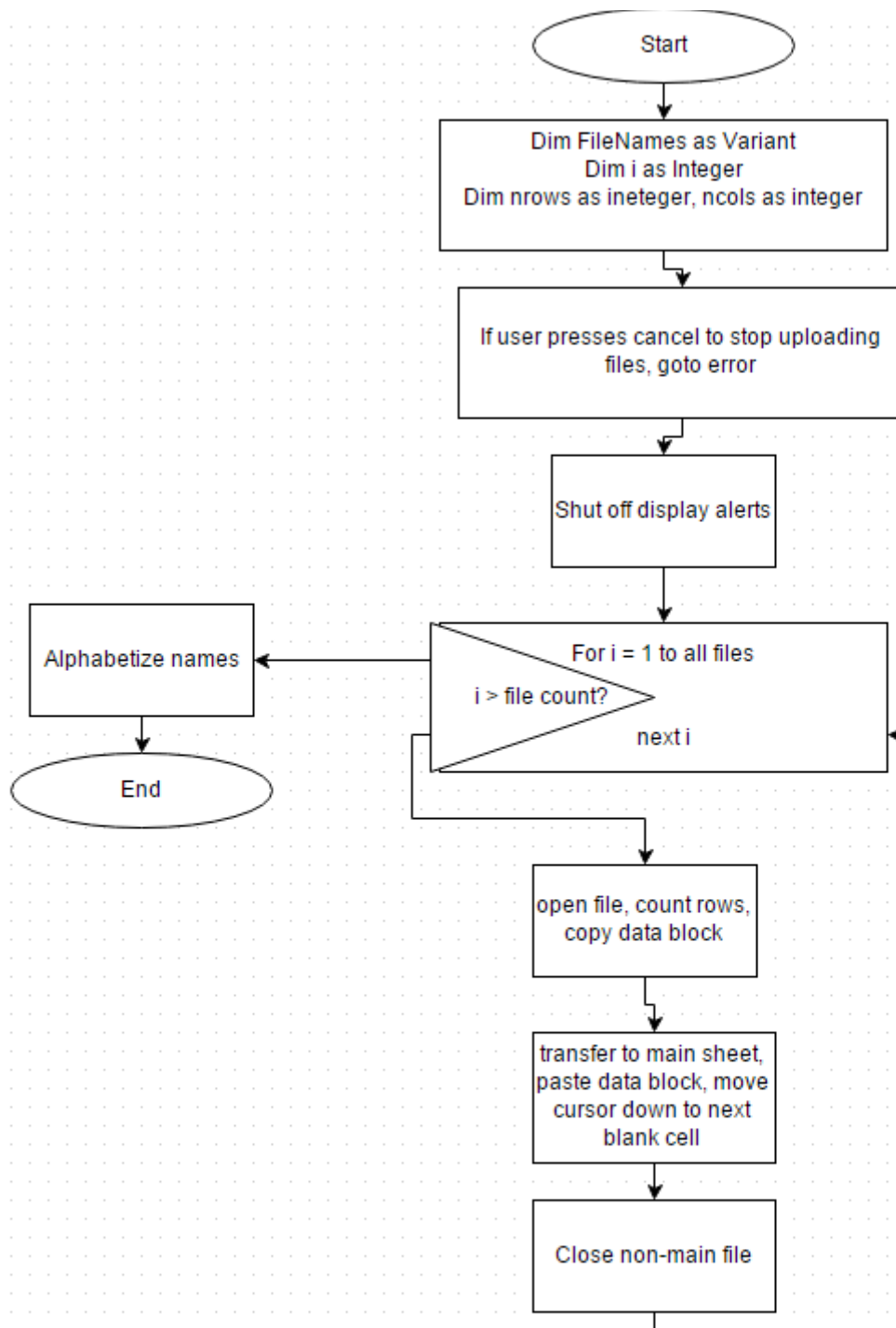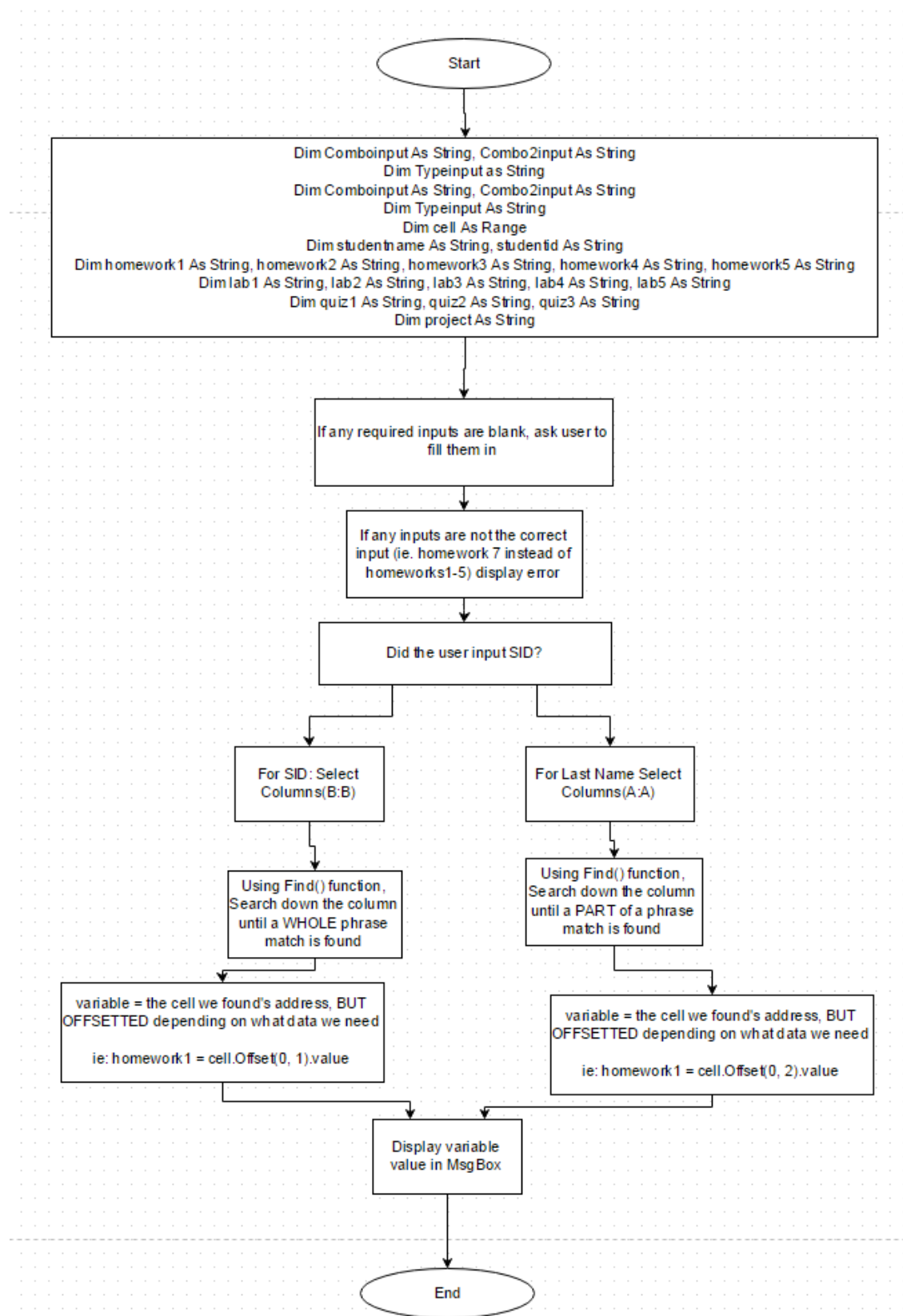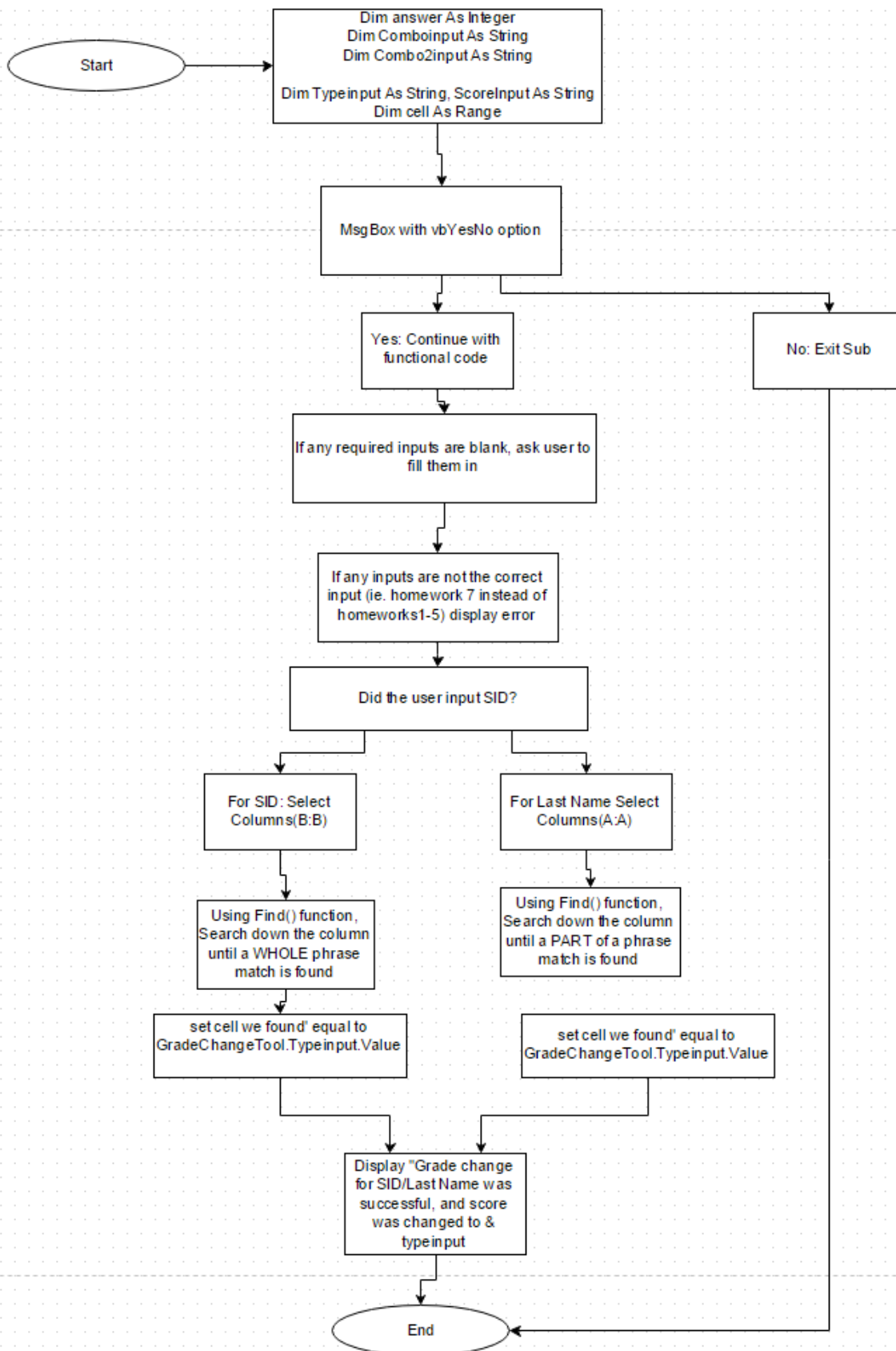
*Figure 1: Import Tool Functional Code*

*Figure 2: Search Tool Functional Code Flow Chart*

Start
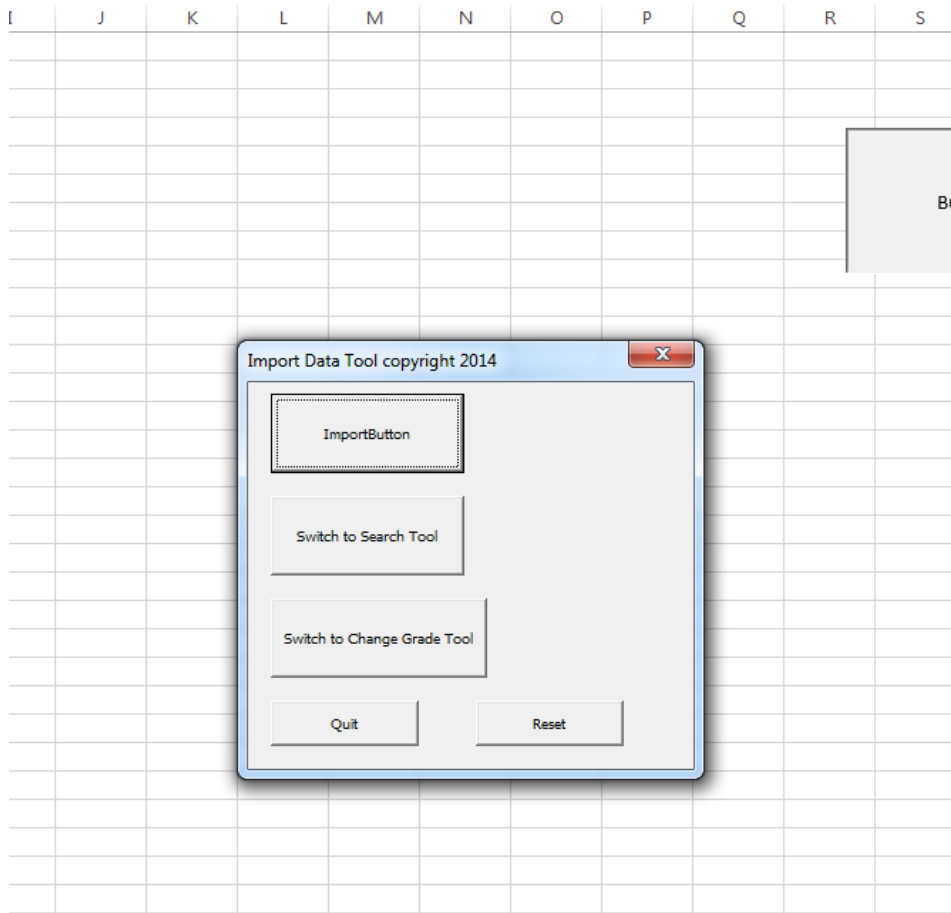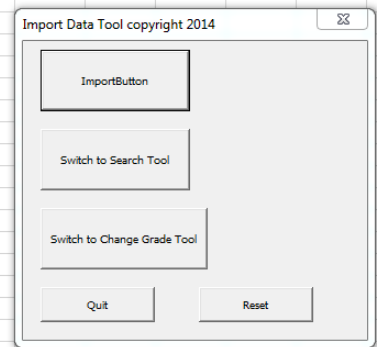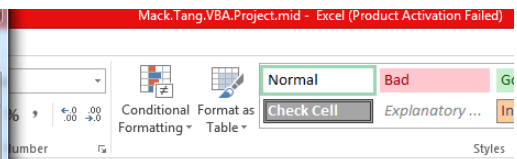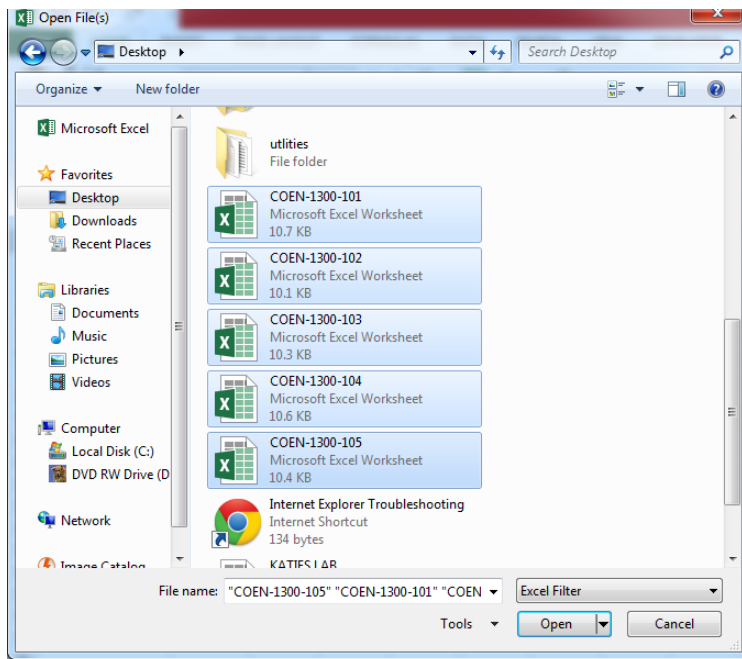
Dim Comboinput As String, Combo2input As String
Dim Typeinput as String
Dim Comboinput As String, Combo2input As String
Dim Typeinput As String
Dim cell As Range
Dim studentname As String, studentid As String
Dim homework1 As String, homework2 As String, homework3 As String, homework4 As String, homework5 As String
Dim lab1 As String, lab2 As String, lab3 As String, lab4 As String, lab5 As String
Dim quiz1 As String, quiz2 As String, quiz3 As String
Dim project As String

If any required inputs are blank, ask user to fill them in

If any inputs are not the correct input (ie. homework 7 instead of homeworks1-5) display error

Did the user input SID?

For SID: Select Columns(B:B)

For Last Name Select Columns(A:A)

Using Find() function, Search down the column until a WHOLE phrase match is found

Using Find() function, Search down the column until a PART of a phrase match is found

variable = the cell we found's address, BUT OFFSETTED depending on what data we need

ie: homework1 = cell.Offset(0, 1).value

variable = the cell we found's address, BUT OFFSETTED depending on what data we need

ie: homework1 = cell.Offset(0, 2).value

Display variable value in MsgBox

End

```
                    ┌─────────────────────────────────┐
                    │ Dim answer As Integer           │
   ╭─────────╮      │ Dim Comboinput As String        │
   │  Start  │─────▶│ Dim Combo2input As String       │
   ╰─────────╯      │                                 │
                    │ Dim Typeinput As String, ScoreInput As String │
                    │ Dim cell As Range               │
                    └─────────────────────────────────┘
                                     │
                                     ▼
                    ┌─────────────────────────────────┐
                    │ MsgBox with vbYesNo option      │
                    └─────────────────────────────────┘
                           │                     │
                           ▼                     ▼
              ┌───────────────────┐    ┌───────────────────┐
              │ Yes: Continue with │    │   No: Exit Sub    │
              │   functional code  │    └───────────────────┘
              └───────────────────┘
                        │
                        ▼
              ┌───────────────────────────────┐
              │ If any required inputs are blank, ask user to │
              │           fill them in          │
              └───────────────────────────────┘
                        │
                        ▼
              ┌───────────────────────────────┐
              │ If any inputs are not the correct │
              │ input (ie. homework 7 instead of │
              │ homeworks1-5) display error     │
              └───────────────────────────────┘
                        │
                        ▼
              ┌───────────────────────────────┐
              │     Did the user input SID?     │
              └───────────────────────────────┘
                   │                     │
                   ▼                     ▼
        ┌───────────────────┐  ┌───────────────────┐
        │ For SID: Select    │  │ For Last Name Select │
        │  Columns(B:B)      │  │   Columns(A:A)     │
        └───────────────────┘  └───────────────────┘
                │                     │
                ▼                     ▼
        ┌───────────────────┐  ┌───────────────────┐
        │ Using Find() function, │ │ Using Find() function, │
        │ Search down the column │ │ Search down the column │
        │ until a WHOLE phrase   │ │ until a PART of a phrase │
        │    match is found      │ │    match is found      │
        └───────────────────┘  └───────────────────┘
                │                     │
                ▼                     ▼
        ┌───────────────────┐  ┌───────────────────┐
        │ set cell we found' equal to │ │ set cell we found' equal to │
        │ GradeChangeTool.Typeinput.Value │ │ GradeChangeTool.Typeinput.Value │
        └───────────────────┘  └───────────────────┘
                │                     │
                ▼                     │
        ┌───────────────────────────┐│
        │ Display "Grade change      ││
        │ for SID/Last Name was      ││
        │ successful, and score      ││
        │ was changed to &           ││
        │ typeinput                  ││
        └───────────────────────────┘│
                   │                  │
                   ▼                  ▼
              ╭─────────────────────────╮
              │          End            │
              ╰─────────────────────────╯
```
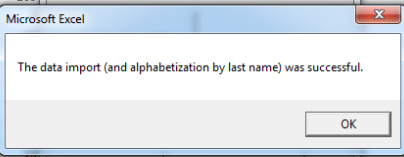
**Example Results**

The following is the sequence the user follows:

Open file/press button to bring up userform > click "Import Tool" > Select several TA's section files > wait for files to be configured > click ok at msg "successful import"

**Open File(s)** — Desktop

Organize ▾  New folder

- Microsoft Excel
- **Favorites**
  - Desktop
  - Downloads
  - Recent Places
- **Libraries**
  - Documents
  - Music
  - Pictures
  - Videos
- **Computer**
  - Local Disk (C:)
  - DVD RW Drive (D
- Network
- Image Catalog

utlities
File folder

COEN-1300-101
Microsoft Excel Worksheet
10.7 KB

COEN-1300-102
Microsoft Excel Worksheet
10.1 KB

COEN-1300-103
Microsoft Excel Worksheet
10.3 KB

COEN-1300-104
Microsoft Excel Worksheet
10.6 KB

COEN-1300-105
Microsoft Excel Worksheet
10.4 KB

Internet Explorer Troubleshooting
Internet Shortcut
134 bytes

KATIES LAB

File name: "COEN-1300-105" "COEN-1300-101" "COEN ▾   Excel Filter

Tools ▾   Open ▾   Cancel

**Import Data Tool copyright 2014**

ImportButton

Switch to Search Tool

Switch to Change Grade Tool

Quit   Reset

Normal | Bad | Go
Check Cell | Explanatory ... | In

Conditional Formatting ▾  Format as Table ▾

Styles

| | Name | Student ID | Homewor | Homewor | Homewor | Homewor | Homewor | Lab 1 | Lab 2 | Lab 3 | Lab 4 | Lab 5 | Quiz 1 | Quiz 2 | Quiz 3 | Project |
|---|------|-----------|---------|---------|---------|---------|---------|-------|-------|-------|-------|-------|--------|--------|--------|---------|
| 2 | Apple, Arnold | 706812786 | 55 | 55 | 45 | 55 | 55 | 22 | 66 | 55 | 55 | 66 | 55 | 44 | 22 | 44 |
| 3 | Arnot, Amy | 438251259 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 4 | Atkins, Albert | 457969088 | 9 | 20 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 1 | 1 | 1 | 56 |
| 5 | Bear, Betty | 405541455 | 11 | 22 | 0.352 | 66 | 22 | 37 | 44 | 0 | 44 | 61.2 | 22 | 0.05 | 55 | 44 |
| 6 | Berry, Barry | 110547086 | -121 | -77 | -133.592 | 99 | -77 | 82 | -22 | -165 | 11 | 46.8 | -77 | -131.8 | 154 | 4 |
| 7 | Blanch, Barry | 366045004 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 27 | 29 | 31 |
| 8 | Britches, Beth | 407030356 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 9 | Chocolate, Charlie | 576678083 | -33 | -11 | -44.296 | 77 | -11 | 52 | 22 | -55 | 33 | 56.4 | -11 | -43.9 | 88 | 44 |
| 10 | Cougar, Charlie | 691004029 | -165 | -110 | -178.24 | 110 | -110 | 97 | -44 | -220 | 0 | 42 | -110 | -175.75 | 187 | 7 |
| 11 | Coyote, Carl | 813358813 | 5 | 4 | 5 | 5 | 5 | 4 | -66 | -275 | -11 | 37.2 | -143 | 5 | 2 | 5 |
| 12 | Crawford, Carrie | 268286162 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 30 | | | | |
| 13 | Crutch, Carrie | 279203124 | 8 | 19 | 30 | 41 | 52 | 63 | 74 | 85 | 96 | | | | | |
| 14 | Duck, Donald | 763817457 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | | | | |
| 15 | Duke, Dan | 392256316 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | | | |
| 16 | Emmons, Emma | 957847851 | 5 | 18 | 31 | 44 | 57 | 70 | 83 | 96 | 109 | | | | | |
| 17 | Ernst, Emma | 609812788 | -253 | 3 | 2 | 132 | -176 | 2 | 5 | -330 | | | | | | |
| 18 | Flowers, Fletcher | 719505465 | -297 | -209 | -312.184 | 143 | -209 | 142 | -110 | -385 | | | | | | |
| 19 | Godfrey, Gilbert | 892556147 | -341 | -242 | 8 | 154 | -242 | 157 | -132 | -440 | | | | | | |
| 20 | Grieber, Gretchen | 404368887 | 7 | 17 | 27 | 37 | 47 | 57 | 67 | 77 | | | | | | |
| 21 | Grizzwald, Grizzly | 120302860 | -385 | -275 | -401.48 | 165 | -275 | 172 | -154 | -495 | | | | | | |
| 22 | Hanry, Henry | 443438415 | -429 | -308 | -446.128 | 176 | -308 | 187 | -176 | -550 | | | | | | |
| 23 | Hansel, Henry | 804646143 | -77 | -44 | -88.944 | 88 | -44 | 67 | 0 | -110 | | | | | | |
| 24 | Harold, Harry | 539243992 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | | | | | |
| 25 | Jacob, Jake | 280386085 | -121 | -77 | 4 | 99 | -77 | 82 | 5 | 5 | 11 | | | | | |
| 26 | Jenson, Jill | 923942347 | 5 | 16 | 27 | 38 | 49 | 60 | 71 | 82 | 93 | | | | | |
| 27 | Jenson, Jim | 600820388 | 5 | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 | 95 | 105 | 115 | 125 | 135 |
| 28 | Jolt, Jerry | 449372495 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 |
| 29 | Kime, Kim | 547061401 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |

**Import Data Tool copyright 2014**

ImportButton

**Microsoft Excel**

The data import (and alphabetization by last name) was successful.

OK

Quit   Reset

From here they may choose to do a search

Click "Switch to Search Tool" Button > pick SID or Last Name from drop down menu > user types in a text box a SID# or a student's last name

| 33 | 56.4 | -11 | -43.9 | 88 | 44 | |
| 0 | 42 | -110 | -175.75 | 187 | 7 | |

**Search Tool copyright 2014**      ✕

Switch to Import Tool     Switch to Grade Change Tool

Select Search Criteria
(SID or Last Name):    [                    ] ▼

Enter SID or Last Name    [                    ]

See All Assignments

OR Select Specific Assignment:   [            ] ▼   GO

Quit      Reset

| 32 | 33 | 34 | 35 | 36 | 37 | |

| 0 | 42 | -110 | -175.75 | 187 | 7 |
|---|---|---|---|---|---|

**Search Tool copyright 2014**   ✕

| Switch to Import Tool | Switch to Grade Change Tool |
|---|---|

Select Search Criteria
(SID or Last Name):

Last Name ▼

Enter SID or Last Name

Bear

See All Assignments

OR Select Specific Assignment:    ▼    GO

| Quit | Reset |
|---|---|

| 32 | 33 | 34 | 35 | 36 | 37 |
|---|---|---|---|---|---|

The user may want the full scores record, or a specific assignment. For full record:

User clicks "See all assignments" button > msg box appears showing all scores

| 0 | 42 | -110 | -175.75 | 187 | 7 |
|---|---|---|---|---|---|

Search Tool cop | Microsoft Excel

Switch to Import

Select Search Crit
(SID or Last Nam

Enter SID or Last

Student Name: Bear, Betty
Student ID #: 405541455
Homework 1: 11
Homework 2: 22
Homework 3: 0.352
Homework 4: 66
Homework 5: 22
Lab 1: 37
Lab 2: 44
Lab 3: 0

See All Assignmer

Lab 4: 44
Lab 5: 61.2
Quiz 1: 22

OR Select Specific

Quiz 2: 0.05
Quiz 3: 55
Project: 44

GO

Quit

OK

| 32 | 33 | | | | 37 |
|----|----|----|----|----|----|
| 14 | 15 | | | | 19 |
| 15 | 16 | 17 | 18 | 19 | 20 |
| 16 | 17 | 18 | 19 | 20 | 21 |

For specific assignment

User picks from drop down menu an assignment name > user presses "Go" > msg box appears with score

Or, from the import page, they may choose to change a grade:

User clicks "Switch to Grade Change Tool" button > User picks from drop down menu either SID or Last Name > user types in an SID# or a last name > User picks from drop down menu an assignment > User

types in the updated score > user presses go > value on spreadsheet is changed, and "success" msgbox appears.

**Grade Change Tool copyright 2014**

Switch to Import Tool  Switch to Search Tool

Select Search Criteria
(SID or Last Name):  SID

Enter SID or Last Name  405541455

Select Assignment:  Quiz 3

Change to score of:  3.14  GO

Quit  Reset

---

Switch to Import Tool  Switch to Search Tool

Select Search Criteria
(SID or Last Name):  SID

**VBA Expert or Not**

Are you sure you want to change this grade?

Yes  No

Quit  Reset
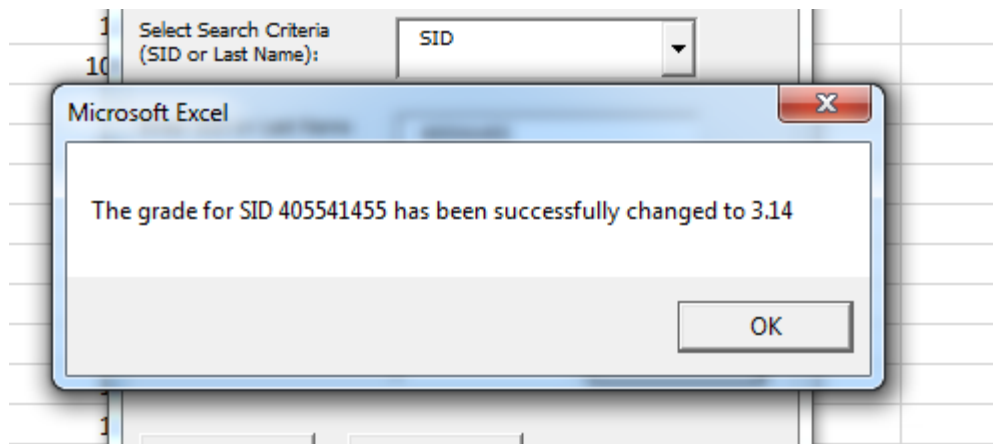
**Input Validation**

To assure that all input validations were met, I essentially just started the userform and did everything and anything to break the system or get an error message. A few examples will be shown below:

User fails to enter an actual assignment (or leaves it blank):
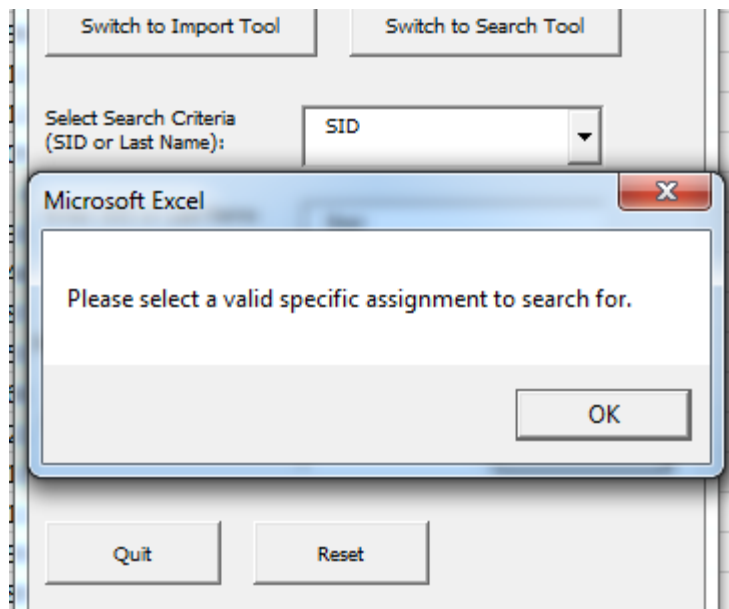
Also, if the VBA code cannot find a certain SID because the user accidentally selected SID but typed a student's last name, it will become obvious to the user what their mistake was through the following error message.

Search Tool copyright 2014

Switch to Import Tool    Switch to Grade Change Tool

Select Search Criteria
(SID or Last Name):    SID

Microsoft Excel

Enter SID or Last Nar

SID Bear not found.

OK

See All Assignments

OR Select Specific As
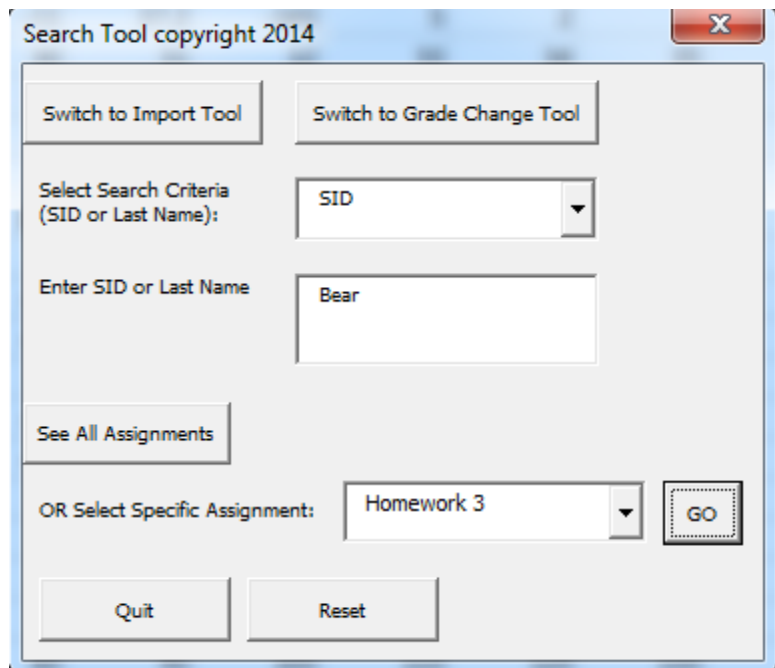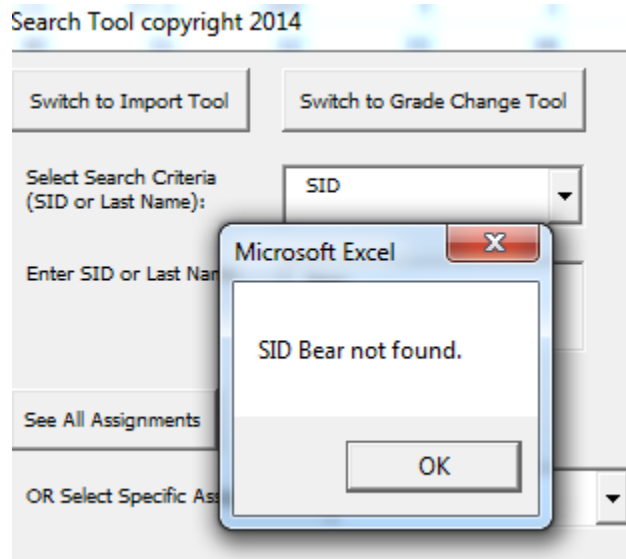
…And if the user presses cancel instead of selecting files, they are simply redirected to the Import Tool:
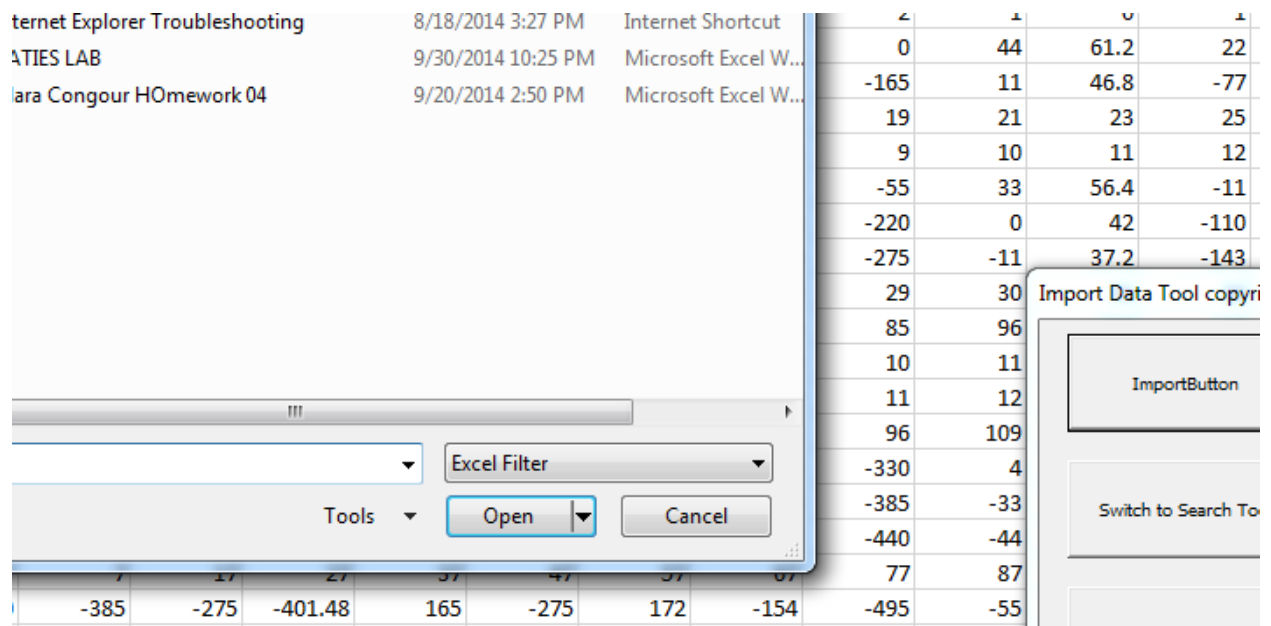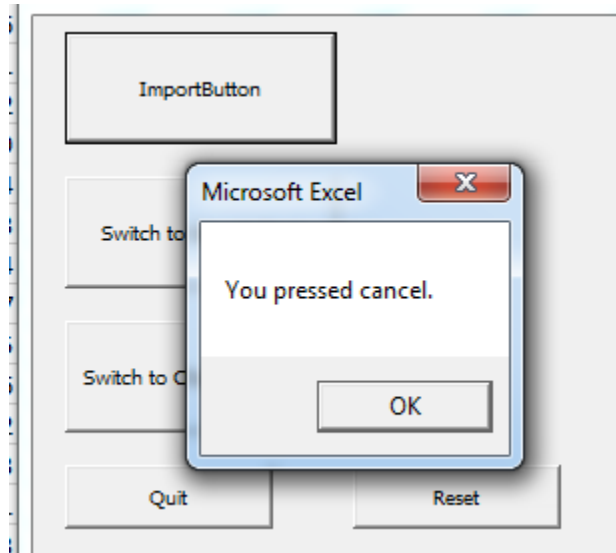
**Validation**

The ability of this project to function successfully and to meet all requirements has been tested extensively. To validate results, one simply must test multiple file sets of various student sets. The adaptability of this code to any class size comes from a macro-recording of the useful keyboard shortcut, "Shift + *" . This keyboard shortcut selects an entire block of code.

**Limitations of the Solution**

There is one very large limitation of this code. Suppose there were 10 homeworks instead of 5. If all the TA's added more columns to their files, the code would not work, because certain values such as "homeworks 1 through 5" have been hardwired into the drop down menus. However, it would be possible to adapt the code such that, if all TA's added another homework column, the search tools would still work. This would be very difficult.

An alternative that works around this "dynamic column" situation while still using the static style of code would be to just add some placeholders. So, one could write the code for 10 homework columns, but just tell the TA's not to enter anything into them. Then the code could just return blank values.

One more limitation is that, if a lone TA decides to change his or her grades, the user must re-upload ALL the files, including the ones which were not changed. This has to do with the way the code copies and pastes everything in on top of what was already there.

One more limitation is that, say we have 2 students with last name "Smith" and "Smitheyy". Because we are using the Find() function, we will always find Smith and not Smitheyy. Same for Mickey and Minnie Mouse, we only ever find Mickey. So, it is always safer to search by SID#, which works 100% of the time.

The whole idea of this VBA Project was to meet all given project requirements. To my knowledge (through my own testing), there was nothing within the requirements that this code couldn't do. So, the limitations of the code lies mainly how few the project requirements were.

**VBA Code (There is code for ImportTool, GradeChangeTool, and SearchTool, and auxiliary code, all labeled in bold)**

**ImportTool**

Option Explicit

Private Sub ImportButton_Click()

Dim FileNames As Variant

Dim i As Integer

Dim nrows As Integer, ncols As Integer

On Error GoTo Err1

Range("A1").Activate
Selection.CurrentRegion.Select
Selection.ClearContents

Application.DisplayAlerts = False
'Application.ScreenUpdating = False
Range("A1").Select

FileNames = Application.GetOpenFilename(FileFilter:="Excel Filter (*.xlsx), *.xlsx", Title:="Open File(s)", MultiSelect:=True)

For i = 1 To UBound(FileNames)
    Workbooks.Open FileNames(i)

```vba
    Range("A1").Select
    Range(Selection, Selection.End(xlToRight)).Select
    Selection.Delete Shift:=xlUp


    Selection.CurrentRegion.Select


    nrows = Selection.Rows.Count
    ncols = Selection.Columns.Count


    Selection.Copy
    Windows("Mack.Tang.VBA.Project.mid.xlsm").Activate


    ActiveSheet.Paste


    Workbooks.Open FileNames(i)
    ActiveWorkbook.Close SaveChanges:=False
    ActiveCell.Offset(nrows, 0).Activate
Next i


Range("A1").Select
ActiveWorkbook.Worksheets("Sheet1").Sort.SortFields.Clear
    ActiveWorkbook.Worksheets("Sheet1").Sort.SortFields.Add Key:=Range("A1:A50") _
        , SortOn:=xlSortOnValues, Order:=xlAscending, DataOption:=xlSortNormal
    With ActiveWorkbook.Worksheets("Sheet1").Sort
        .SetRange Range("A1:P50")
        .Header = xlGuess
        .MatchCase = False
        .Orientation = xlTopToBottom
        .SortMethod = xlPinYin
        .Apply
    End With
```

```vba
Range("A1").Select
    Range(Selection, Selection.End(xlToRight)).Select
    Selection.Insert Shift:=xlDown, CopyOrigin:=xlFormatFromLeftOrAbove


For i = 1 To UBound(FileNames)
    Workbooks.Open FileNames(i)




    Range("A1").Select
    Range(Selection, Selection.End(xlToRight)).Select

    Selection.Copy
    Windows("Mack.Tang.VBA.Project.mid.xlsm").Activate

    ActiveSheet.Paste

    Workbooks.Open FileNames(i)
    ActiveWorkbook.Close SaveChanges:=False
    Exit For
Next i


MsgBox "The data import (and alphabetization by last name) was successful."


Exit Sub


Err1:
MsgBox "You pressed cancel."
Unload ImportTool
ImportTool.Show


End Sub
```

```vba
Private Sub QuitButton_Click()

Unload ImportTool

End Sub


Private Sub ResetButton_Click()

Unload ImportTool

ImportTool.Show

End Sub


Private Sub ShowSearchTool_Click()


Unload ImportTool

SearchTool.Show


End Sub


Private Sub ChangeTool_Click()


Unload ImportTool

GradeChangeTool.Show


End Sub


Private Sub UserForm_Click()


End SubOption Explicit



Private Sub ImportButton_Click()


Dim FileNames As Variant

Dim i As Integer
```

```vba
Dim nrows As Integer, ncols As Integer

On Error GoTo Err1

Range("A1").Activate
Selection.CurrentRegion.Select
Selection.ClearContents



Application.DisplayAlerts = False
'Application.ScreenUpdating = False
Range("A1").Select
FileNames = Application.GetOpenFilename(FileFilter:="Excel Filter (*.xlsx), *.xlsx", Title:="Open File(s)", MultiSelect:=True)

For i = 1 To UBound(FileNames)
    Workbooks.Open FileNames(i)



    Range("A1").Select
    Range(Selection, Selection.End(xlToRight)).Select
    Selection.Delete Shift:=xlUp

    Selection.CurrentRegion.Select

    nrows = Selection.Rows.Count
    ncols = Selection.Columns.Count

    Selection.Copy
    Windows("Mack.Tang.VBA.Project.mid.xlsm").Activate
```

```vba
    ActiveSheet.Paste

    Workbooks.Open FileNames(i)
    ActiveWorkbook.Close SaveChanges:=False
    ActiveCell.Offset(nrows, 0).Activate
Next i

Range("A1").Select
ActiveWorkbook.Worksheets("Sheet1").Sort.SortFields.Clear
    ActiveWorkbook.Worksheets("Sheet1").Sort.SortFields.Add Key:=Range("A1:A50") _
        , SortOn:=xlSortOnValues, Order:=xlAscending, DataOption:=xlSortNormal
    With ActiveWorkbook.Worksheets("Sheet1").Sort
        .SetRange Range("A1:P50")
        .Header = xlGuess
        .MatchCase = False
        .Orientation = xlTopToBottom
        .SortMethod = xlPinYin
        .Apply
    End With

Range("A1").Select
    Range(Selection, Selection.End(xlToRight)).Select
    Selection.Insert Shift:=xlDown, CopyOrigin:=xlFormatFromLeftOrAbove

For i = 1 To UBound(FileNames)
    Workbooks.Open FileNames(i)



    Range("A1").Select
    Range(Selection, Selection.End(xlToRight)).Select
```

```vba
        Selection.Copy
        Windows("Mack.Tang.VBA.Project.mid.xlsm").Activate

        ActiveSheet.Paste

        Workbooks.Open FileNames(i)
        ActiveWorkbook.Close SaveChanges:=False
        Exit For
Next i

MsgBox "The data import (and alphabetization by last name) was successful."

Exit Sub

Err1:
MsgBox "You pressed cancel."
Unload ImportTool
ImportTool.Show

End Sub

Private Sub QuitButton_Click()
Unload ImportTool
End Sub

Private Sub ResetButton_Click()
Unload ImportTool
ImportTool.Show
End Sub

Private Sub ShowSearchTool_Click()

Unload ImportTool
```

```
SearchTool.Show

End Sub

Private Sub ChangeTool_Click()

Unload ImportTool
GradeChangeTool.Show

End Sub

Private Sub UserForm_Click()

End Sub
```

**SearchTool**

```
Option Explicit
Option Base 1

Private Sub GoSearch_Click()

Dim Comboinput As String
Dim Typeinput As String
Dim cell As Range
Dim studentname As String, studentid As String
Dim homework1 As String, homework2 As String, homework3 As String, homework4 As String, homework5 As String
Dim lab1 As String, lab2 As String, lab3 As String, lab4 As String, lab5 As String
Dim quiz1 As String, quiz2 As String, quiz3 As String
Dim project As String



Typeinput = SearchTool.Typeinput.Value
```

```vba
Comboinput = ComboBox1.Value

Sheets("Sheet1").Select

If SearchTool.Typeinput.Value = "" Then
MsgBox "You must enter a SID # or last name to search for."
Exit Sub
End If

If Comboinput = "SID" Then

Columns("B:B").Select
    Set cell = Selection.Find(What:=SearchTool.Typeinput.Value, After:=ActiveCell, LookIn:=xlFormulas, _
        LookAt:=xlWhole, SearchOrder:=xlByRows, SearchDirection:=xlNext, _
        MatchCase:=False, SearchFormat:=False)

If cell Is Nothing Then
    'do it something
MsgBox "SID " & Typeinput & " not found."

Else
    'do it another thing
studentname = cell.Offset(0, -1).Value
studentid = cell.Offset(0, 0).Value
homework1 = cell.Offset(0, 1).Value
homework2 = cell.Offset(0, 2).Value
homework3 = cell.Offset(0, 3).Value
homework4 = cell.Offset(0, 4).Value
homework5 = cell.Offset(0, 5).Value
lab1 = cell.Offset(0, 6).Value
```

```vba
lab2 = cell.Offset(0, 7).Value

lab3 = cell.Offset(0, 8).Value

lab4 = cell.Offset(0, 9).Value

lab5 = cell.Offset(0, 10).Value

quiz1 = cell.Offset(0, 11).Value

quiz2 = cell.Offset(0, 12).Value

quiz3 = cell.Offset(0, 13).Value

project = cell.Offset(0, 14).Value


'cell.Offset(0, 1) = homework1


 MsgBox "Student Name: " & studentname & vbCrLf & _

        "Student ID #: " & studentid & vbCrLf & _

        "Homework 1: " & homework1 & vbCrLf & _

        "Homework 2: " & homework2 & vbCrLf & _

        "Homework 3: " & homework3 & vbCrLf & _

        "Homework 4: " & homework4 & vbCrLf & _

        "Homework 5: " & homework5 & vbCrLf & _

        "Lab 1: " & lab1 & vbCrLf & _

        "Lab 2: " & lab2 & vbCrLf & _

        "Lab 3: " & lab3 & vbCrLf & _

        "Lab 4: " & lab4 & vbCrLf & _

        "Lab 5: " & lab5 & vbCrLf & _

        "Quiz 1: " & quiz1 & vbCrLf & _

        "Quiz 2: " & quiz2 & vbCrLf & _

        "Quiz 3: " & quiz3 & vbCrLf & _

        "Project: " & project
End If


End If


If Comboinput = "Last Name" Then
```

```vba
'Application.WorksheetFunction.VLOOKUP(lookup_value, table_array, column_index, range_lookup)
'I3,Data1,3,FALSE
Columns("A:A").Select
    Set cell = Selection.Find(What:=SearchTool.Typeinput.Value, After:=ActiveCell, LookIn:=xlFormulas, _
        LookAt:=xlPart, SearchOrder:=xlByRows, SearchDirection:=xlNext, _
        MatchCase:=False, SearchFormat:=False)


'----------------------------------------------------------------------------------------------------
    If cell Is Nothing Then
        'do it something
    MsgBox "Student Last Name " & SearchTool.Typeinput.Value & " not found."
    Else
        'do it another thing
    studentname = cell.Offset(0, 0).Value
    studentid = cell.Offset(0, 1).Value
    homework1 = cell.Offset(0, 2).Value
    homework2 = cell.Offset(0, 3).Value
    homework3 = cell.Offset(0, 4).Value
    homework4 = cell.Offset(0, 5).Value
    homework5 = cell.Offset(0, 6).Value
    lab1 = cell.Offset(0, 7).Value
    lab2 = cell.Offset(0, 8).Value
    lab3 = cell.Offset(0, 9).Value
    lab4 = cell.Offset(0, 10).Value
    lab5 = cell.Offset(0, 11).Value
    quiz1 = cell.Offset(0, 12).Value
    quiz2 = cell.Offset(0, 13).Value
    quiz3 = cell.Offset(0, 14).Value
    project = cell.Offset(0, 15).Value

    MsgBox "Student Name: " & studentname & vbCrLf & _
        "Student ID #: " & studentid & vbCrLf & _
        "Homework 1: " & homework1 & vbCrLf & _
```

```vb
            "Homework 2: " & homework2 & vbCrLf & _

            "Homework 3: " & homework3 & vbCrLf & _

            "Homework 4: " & homework4 & vbCrLf & _

            "Homework 5: " & homework5 & vbCrLf & _

            "Lab 1: " & lab1 & vbCrLf & _

            "Lab 2: " & lab2 & vbCrLf & _

            "Lab 3: " & lab3 & vbCrLf & _

            "Lab 4: " & lab4 & vbCrLf & _

            "Lab 5: " & lab5 & vbCrLf & _

            "Quiz 1: " & quiz1 & vbCrLf & _

            "Quiz 2: " & quiz2 & vbCrLf & _

            "Quiz 3: " & quiz3 & vbCrLf & _

            "Project: " & project


        'cell.Offset(0, 1) = homework1
    End If
    End If



End Sub
```

```vba
Private Sub GOSpecific_Click()


Dim Comboinput As String, Combo2input As String

Dim Typeinput As String

Dim cell As Range

Dim studentname As String, studentid As String

Dim homework1 As String, homework2 As String, homework3 As String, homework4 As String, homework5 As String

Dim lab1 As String, lab2 As String, lab3 As String, lab4 As String, lab5 As String

Dim quiz1 As String, quiz2 As String, quiz3 As String

Dim project As String




Comboinput = ComboBox1.Value

Combo2input = ComboBox2.Value

Sheets("Sheet1").Select






If SearchTool.ComboBox2.Value <> "Homework 1" _
```

And SearchTool.ComboBox2.Value <> "Homework 2" _

And SearchTool.ComboBox2.Value <> "Homework 3" _

And SearchTool.ComboBox2.Value <> "Homework 4" _

And SearchTool.ComboBox2.Value <> "Homework 5" _

And SearchTool.ComboBox2.Value <> "Lab 1" _

And SearchTool.ComboBox2.Value <> "Lab 2" _

And SearchTool.ComboBox2.Value <> "Lab 3" _

And SearchTool.ComboBox2.Value <> "Lab 4" _

And SearchTool.ComboBox2.Value <> "Lab 5" _

And SearchTool.ComboBox2.Value <> "Quiz 1" _

And SearchTool.ComboBox2.Value <> "Quiz 2" _

And SearchTool.ComboBox2.Value <> "Quiz 3" _

And SearchTool.ComboBox2.Value <> "Project" Then

MsgBox "Please select a valid specific assignment to search for."

Exit Sub

End If




If SearchTool.ComboBox1.Value <> "SID" And SearchTool.ComboBox1.Value <> "Last Name" Then

     MsgBox "Please select a valid Search Criteria (SID or Last Name)"

     Exit Sub

     End If


If Comboinput = "SID" Then


Columns("B:B").Select

   Set cell = Selection.Find(What:=SearchTool.Typeinput.Value, After:=ActiveCell, LookIn:=xlFormulas, _

     LookAt:=xlWhole, SearchOrder:=xlByRows, SearchDirection:=xlNext, _

     MatchCase:=False, SearchFormat:=False)

```vba
If cell Is Nothing Then
    'do it something
MsgBox "SID " & SearchTool.Typeinput.Value & " not found."
Else
    'do it another thing
studentname = cell.Offset(0, -1).Value
studentid = cell.Offset(0, 0).Value
homework1 = cell.Offset(0, 1).Value
homework2 = cell.Offset(0, 2).Value
homework3 = cell.Offset(0, 3).Value
homework4 = cell.Offset(0, 4).Value
homework5 = cell.Offset(0, 5).Value
lab1 = cell.Offset(0, 6).Value
lab2 = cell.Offset(0, 7).Value
lab3 = cell.Offset(0, 8).Value
lab4 = cell.Offset(0, 9).Value
lab5 = cell.Offset(0, 10).Value
quiz1 = cell.Offset(0, 11).Value
quiz2 = cell.Offset(0, 12).Value
quiz3 = cell.Offset(0, 13).Value
project = cell.Offset(0, 14).Value

    If Combo2input = "Homework 1" Then
        MsgBox "Homework 1: " & homework1
    End If

    If Combo2input = "Homework 2" Then
        MsgBox "Homework 2: " & homework2
    End If

    If Combo2input = "Homework 3" Then
        MsgBox "Homework 3: " & homework3
    End If
```

```
If Combo2input = "Homework 4" Then
   MsgBox "Homework 4: " & homework4
End If


If Combo2input = "Homework 5" Then
   MsgBox "Homework 5: " & homework5
End If


If Combo2input = "Lab 1" Then
   MsgBox "Lab 1: " & lab1
End If


If Combo2input = "Lab 2" Then
   MsgBox "Lab 2: " & lab2
End If


If Combo2input = "Lab 3" Then
   MsgBox "Lab 3: " & lab3
End If


If Combo2input = "Lab 4" Then
   MsgBox "Lab 4: " & lab4
End If


If Combo2input = "Lab 5" Then
   MsgBox "Lab 5: " & lab5
End If


If Combo2input = "Quiz 1" Then
   MsgBox "Quiz 1: " & quiz1
End If
```

```vba
    If Combo2input = "Quiz 2" Then
        MsgBox "Quiz 2: " & quiz2
    End If


    If Combo2input = "Quiz 3" Then
        MsgBox "Quiz 3: " & quiz3
    End If


    If Combo2input = "Project" Then
        MsgBox "Project: " & project
    End If


'cell.Offset(0, 1) = homework1


End If


End If


If Comboinput = "Last Name" Then
'Application.WorksheetFunction.VLOOKUP(lookup_value, table_array, column_index, range_lookup)
'I3,Data1,3,FALSE
Columns("A:A").Select
    Set cell = Selection.Find(What:=SearchTool.Typeinput.Value, After:=ActiveCell, LookIn:=xlFormulas, _
        LookAt:=xlPart, SearchOrder:=xlByRows, SearchDirection:=xlNext, _
        MatchCase:=False, SearchFormat:=False)


'-------------------------------------------------------------------------------------------------------------
    If cell Is Nothing Then
        'do it something
    MsgBox "Student Last Name " & SearchTool.Typeinput.Value & " not found."
    Else
        'do it another thing
    studentname = cell.Offset(0, 0).Value
```

```vba
studentid = cell.Offset(0, 1).Value

homework1 = cell.Offset(0, 2).Value

homework2 = cell.Offset(0, 3).Value

homework3 = cell.Offset(0, 4).Value

homework4 = cell.Offset(0, 5).Value

homework5 = cell.Offset(0, 6).Value

lab1 = cell.Offset(0, 7).Value

lab2 = cell.Offset(0, 8).Value

lab3 = cell.Offset(0, 9).Value

lab4 = cell.Offset(0, 10).Value

lab5 = cell.Offset(0, 11).Value

quiz1 = cell.Offset(0, 12).Value

quiz2 = cell.Offset(0, 13).Value

quiz3 = cell.Offset(0, 14).Value

project = cell.Offset(0, 15).Value


If Combo2input = "Homework 1" Then
    MsgBox "Homework 1: " & homework1
End If


If Combo2input = "Homework 2" Then
    MsgBox "Homework 2: " & homework2
End If


If Combo2input = "Homework 3" Then
    MsgBox "Homework 3: " & homework3
End If


If Combo2input = "Homework 4" Then
    MsgBox "Homework 4: " & homework4
End If


If Combo2input = "Homework 5" Then
```

```
    MsgBox "Homework 5: " & homework5
End If


If Combo2input = "Lab 1" Then
    MsgBox "Lab 1: " & lab1
End If


If Combo2input = "Lab 2" Then
    MsgBox "Lab 2: " & lab2
End If


If Combo2input = "Lab 3" Then
    MsgBox "Lab 3: " & lab3
End If


If Combo2input = "Lab 4" Then
    MsgBox "Lab 4: " & lab4
End If


If Combo2input = "Lab 5" Then
    MsgBox "Lab 5: " & lab5
End If


If Combo2input = "Quiz 1" Then
    MsgBox "Quiz 1: " & quiz1
End If


If Combo2input = "Quiz 2" Then
    MsgBox "Quiz 2: " & quiz2
End If


If Combo2input = "Quiz 3" Then
    MsgBox "Quiz 3: " & quiz3
```

```vba
    End If


   If Combo2input = "Project" Then
      MsgBox "Project: " & project
   End If
   'cell.Offset(0, 1) = homework1
End If
End If


If SearchTool.Typeinput.Value = "" Then
MsgBox "You must enter a SID # or last name to search for."
End If


End Sub


Private Sub GradeChangeToolButton_Click()
Unload SearchTool
GradeChangeTool.Show
End Sub


Private Sub ImportToolButton_Click()
Unload SearchTool
ImportTool.Show
End Sub


Private Sub QuitButton_Click()
Unload SearchTool
End Sub


Private Sub ResetButton_Click()
Unload SearchTool
SearchTool.Show
End Sub
```

```vba
Private Sub Typeinput_Change()

End Sub

'End Sub

Private Sub UserForm_Initialize()

    With ComboBox1
        .AddItem "SID"
        .AddItem "Last Name"
    End With

    With ComboBox2
        .AddItem "Homework 1"
        .AddItem "Homework 2"
        .AddItem "Homework 3"
        .AddItem "Homework 4"
        .AddItem "Homework 5"
        .AddItem "Lab 1"
        .AddItem "Lab 2"
        .AddItem "Lab 3"
        .AddItem "Lab 4"
        .AddItem "Lab 5"
        .AddItem "Quiz 1"
        .AddItem "Quiz 2"
        .AddItem "Quiz 3"
        .AddItem "Project"
    End With

End Sub
```

**GradeChangeTool**

```vba
Private Sub GoSearch_Click()

Dim answer As Integer

Dim Comboinput As String

Dim Combo2input As String


Dim Typeinput As String, ScoreInput As String

Dim cell As Range


Typeinput = GradeChangeTool.Typeinput.Value

Comboinput = ComboBox1.Value

Combo2input = ComboBox2.Value

Sheets("Sheet1").Select


answer = MsgBox("Are you sure you want to change this grade?", vbYesNo, "VBA Expert or Not")

If answer = vbNo Then

        Exit Sub


    Else


        If GradeChangeTool.ComboBox2.Value <> "Homework 1" _

        And GradeChangeTool.ComboBox2.Value <> "Homework 2" _

        And GradeChangeTool.ComboBox2.Value <> "Homework 3" _

        And GradeChangeTool.ComboBox2.Value <> "Homework 4" _

        And GradeChangeTool.ComboBox2.Value <> "Homework 5" _

        And GradeChangeTool.ComboBox2.Value <> "Lab 1" _

        And GradeChangeTool.ComboBox2.Value <> "Lab 2" _

        And GradeChangeTool.ComboBox2.Value <> "Lab 3" _

        And GradeChangeTool.ComboBox2.Value <> "Lab 4" _

        And GradeChangeTool.ComboBox2.Value <> "Lab 5" _

        And GradeChangeTool.ComboBox2.Value <> "Quiz 1" _

        And GradeChangeTool.ComboBox2.Value <> "Quiz 2" _

        And GradeChangeTool.ComboBox2.Value <> "Quiz 3" _
```

```vba
            And GradeChangeTool.ComboBox2.Value <> "Project" Then

            MsgBox "Please select a valid specific assignment to search for."

            Exit Sub

            End If


            If GradeChangeTool.ComboBox1.Value <> "SID" And GradeChangeTool.ComboBox1.Value <> "Last
Name" Then

            MsgBox "Please select a valid Search Criteria of SID or Last Name"

            Exit Sub

            End If




        If Comboinput = "SID" Then


            Columns("B:B").Select
        Set cell = Selection.Find(What:=GradeChangeTool.Typeinput.Value, After:=ActiveCell, LookIn:=xlFormulas, _
            LookAt:=xlWhole, SearchOrder:=xlByRows, SearchDirection:=xlNext, _
            MatchCase:=False, SearchFormat:=False)


            If cell Is Nothing Then
        MsgBox "SID " & Typeinput & " not found."
        'do it something
         Exit Sub
         End If




            If Combo2input = "Homework 1" Then
            cell.Offset(0, 1).Value = GradeChangeTool.ScoreInput.Value
            MsgBox "The grade for SID " & GradeChangeTool.Typeinput.Value & " has been successfully changed to "
& _
            GradeChangeTool.ScoreInput.Value
```

```
End If


If Combo2input = "Homework 2" Then

cell.Offset(0, 2).Value = GradeChangeTool.ScoreInput.Value

MsgBox "The grade for SID " & GradeChangeTool.Typeinput.Value & " has been successfully changed to "
& _

GradeChangeTool.ScoreInput.Value

End If


If Combo2input = "Homework 3" Then

cell.Offset(0, 3).Value = GradeChangeTool.ScoreInput.Value

MsgBox "The grade for SID " & GradeChangeTool.Typeinput.Value & " has been successfully changed to "
& _

GradeChangeTool.ScoreInput.Value

End If


If Combo2input = "Homework 4" Then

cell.Offset(0, 4).Value = GradeChangeTool.ScoreInput.Value

MsgBox "The grade for SID " & GradeChangeTool.Typeinput.Value & " has been successfully changed to "
& _

GradeChangeTool.ScoreInput.Value

End If


If Combo2input = "Homework 5" Then

cell.Offset(0, 5).Value = GradeChangeTool.ScoreInput.Value

MsgBox "The grade for SID " & GradeChangeTool.Typeinput.Value & " has been successfully changed to "
& _

GradeChangeTool.ScoreInput.Value

End If


If Combo2input = "Lab 1" Then

cell.Offset(0, 6).Value = GradeChangeTool.ScoreInput.Value

MsgBox "The grade for SID " & GradeChangeTool.Typeinput.Value & " has been successfully changed to "
& _

GradeChangeTool.ScoreInput.Value
```

```
        End If


        If Combo2input = "Lab 2" Then
        cell.Offset(0, 7).Value = GradeChangeTool.ScoreInput.Value
        MsgBox "The grade for SID " & GradeChangeTool.Typeinput.Value & " has been successfully changed to "
& _
        GradeChangeTool.ScoreInput.Value
        End If


        If Combo2input = "Lab 3" Then
        cell.Offset(0, 8).Value = GradeChangeTool.ScoreInput.Value
        MsgBox "The grade for SID " & GradeChangeTool.Typeinput.Value & " has been successfully changed to "
& _
        GradeChangeTool.ScoreInput.Value
        End If


        If Combo2input = "Lab 4" Then
        cell.Offset(0, 9).Value = GradeChangeTool.ScoreInput.Value
        MsgBox "The grade for SID " & GradeChangeTool.Typeinput.Value & " has been successfully changed to "
& _
        GradeChangeTool.ScoreInput.Value
        End If


        If Combo2input = "Lab 5" Then
        cell.Offset(0, 10).Value = GradeChangeTool.ScoreInput.Value
        MsgBox "The grade for SID " & GradeChangeTool.Typeinput.Value & " has been successfully changed to "
& _
        GradeChangeTool.ScoreInput.Value
        End If


        If Combo2input = "Quiz 1" Then
        cell.Offset(0, 11).Value = GradeChangeTool.ScoreInput.Value
        MsgBox "The grade for SID " & GradeChangeTool.Typeinput.Value & " has been successfully changed to "
& _
        GradeChangeTool.ScoreInput.Value
```

```vba
        End If


        If Combo2input = "Quiz 2" Then
        cell.Offset(0, 12).Value = GradeChangeTool.ScoreInput.Value
        MsgBox "The grade for SID " & GradeChangeTool.Typeinput.Value & " has been successfully changed to "
& _
        GradeChangeTool.ScoreInput.Value
        End If


        If Combo2input = "Quiz 3" Then
        cell.Offset(0, 13).Value = GradeChangeTool.ScoreInput.Value
        MsgBox "The grade for SID " & GradeChangeTool.Typeinput.Value & " has been successfully changed to "
& _
        GradeChangeTool.ScoreInput.Value
        End If


        If Combo2input = "Project" Then
        cell.Offset(0, 14).Value = GradeChangeTool.ScoreInput.Value
        MsgBox "The grade for SID " & GradeChangeTool.Typeinput.Value & " has been successfully changed to "
& _
        GradeChangeTool.ScoreInput.Value
        End If


    End If







        '_____
If Comboinput = "Last Name" Then


        Columns("A:A").Select
```

```vba
Set cell = Selection.Find(What:=GradeChangeTool.Typeinput.Value, After:=ActiveCell, LookIn:=xlFormulas, _
    LookAt:=xlPart, SearchOrder:=xlByRows, SearchDirection:=xlNext, _
    MatchCase:=False, SearchFormat:=False)


    If cell Is Nothing Then
    MsgBox "Last Name " & Typeinput & " not found."
    'do it something
    Exit Sub
    End If




    If Combo2input = "Homework 1" Then
    cell.Offset(0, 2).Value = GradeChangeTool.ScoreInput.Value
    MsgBox "The grade for last name " & GradeChangeTool.Typeinput.Value & " has been successfully changed
to " & _
    GradeChangeTool.ScoreInput.Value
    End If


    If Combo2input = "Homework 2" Then
    cell.Offset(0, 3).Value = GradeChangeTool.ScoreInput.Value
    MsgBox "The grade for last name " & GradeChangeTool.Typeinput.Value & " has been successfully changed
to " & _
    GradeChangeTool.ScoreInput.Value
    End If


    If Combo2input = "Homework 3" Then
    cell.Offset(0, 4).Value = GradeChangeTool.ScoreInput.Value
    MsgBox "The grade for last name " & GradeChangeTool.Typeinput.Value & " has been successfully changed
to " & _
    GradeChangeTool.ScoreInput.Value
    End If


    If Combo2input = "Homework 4" Then
```

```vba
        cell.Offset(0, 5).Value = GradeChangeTool.ScoreInput.Value

        MsgBox "The grade for last name " & GradeChangeTool.Typeinput.Value & " has been successfully changed
to " & _

        GradeChangeTool.ScoreInput.Value

        End If


        If Combo2input = "Homework 5" Then

        cell.Offset(0, 6).Value = GradeChangeTool.ScoreInput.Value

        MsgBox "The grade for last name " & GradeChangeTool.Typeinput.Value & " has been successfully changed
to " & _

        GradeChangeTool.ScoreInput.Value

        End If


        If Combo2input = "Lab 1" Then

        cell.Offset(0, 7).Value = GradeChangeTool.ScoreInput.Value

        MsgBox "The grade for last name " & GradeChangeTool.Typeinput.Value & " has been successfully changed
to " & _

        GradeChangeTool.ScoreInput.Value

        End If


        If Combo2input = "Lab 2" Then

        cell.Offset(0, 8).Value = GradeChangeTool.ScoreInput.Value

        MsgBox "The grade for last name " & GradeChangeTool.Typeinput.Value & " has been successfully changed
to " & _

        GradeChangeTool.ScoreInput.Value

        End If


        If Combo2input = "Lab 3" Then

        cell.Offset(0, 9).Value = GradeChangeTool.ScoreInput.Value

        MsgBox "The grade for last name " & GradeChangeTool.Typeinput.Value & " has been successfully changed
to " & _

        GradeChangeTool.ScoreInput.Value

        End If


        If Combo2input = "Lab 4" Then
```

```vba
        cell.Offset(0, 10).Value = GradeChangeTool.ScoreInput.Value

        MsgBox "The grade for last name " & GradeChangeTool.Typeinput.Value & " has been successfully changed
to " & _

        GradeChangeTool.ScoreInput.Value

        End If


        If Combo2input = "Lab 5" Then

        cell.Offset(0, 11).Value = GradeChangeTool.ScoreInput.Value

        MsgBox "The grade for last name " & GradeChangeTool.Typeinput.Value & " has been successfully changed
to " & _

        GradeChangeTool.ScoreInput.Value

        End If


        If Combo2input = "Quiz 1" Then

        cell.Offset(0, 12).Value = GradeChangeTool.ScoreInput.Value

        MsgBox "The grade for last name " & GradeChangeTool.Typeinput.Value & " has been successfully changed
to " & _

        GradeChangeTool.ScoreInput.Value

        End If


        If Combo2input = "Quiz 2" Then

        cell.Offset(0, 13).Value = GradeChangeTool.ScoreInput.Value

        MsgBox "The grade for last name " & GradeChangeTool.Typeinput.Value & " has been successfully changed
to " & _

        GradeChangeTool.ScoreInput.Value

        End If


        If Combo2input = "Quiz 3" Then

        cell.Offset(0, 14).Value = GradeChangeTool.ScoreInput.Value

        MsgBox "The grade for last name " & GradeChangeTool.Typeinput.Value & " has been successfully changed
to " & _

        GradeChangeTool.ScoreInput.Value

        End If


        If Combo2input = "Project" Then
```

```vba
        cell.Offset(0, 15).Value = GradeChangeTool.ScoreInput.Value

        MsgBox "The grade for last name " & GradeChangeTool.Typeinput.Value & " has been successfully changed
to " & _

        GradeChangeTool.ScoreInput.Value

        End If


    End If


  End If
End Sub


Private Sub ImportTool_Click()


Unload GradeChangeTool

ImportTool.Show


End Sub
Private Sub ImportToolButton_Click()

Unload GradeChangeTool

ImportTool.Show

End Sub


Private Sub QuitButton_Click()

Unload GradeChangeTool

End Sub


Private Sub ResetButton_Click()

Unload GradeChangeTool

GradeChangeTool.Show

End Sub


Private Sub SearchToolButton_Click()

Unload GradeChangeTool
```

```vba
SearchTool.Show

End Sub


Private Sub Typeinput_Change()


End Sub


Private Sub UserForm_Initialize()


  With ComboBox1
    .AddItem "SID"
    .AddItem "Last Name"
  End With


  With ComboBox2
    .AddItem "Homework 1"
    .AddItem "Homework 2"
    .AddItem "Homework 3"
    .AddItem "Homework 4"
    .AddItem "Homework 5"
    .AddItem "Lab 1"
    .AddItem "Lab 2"
    .AddItem "Lab 3"
    .AddItem "Lab 4"
    .AddItem "Lab 5"
    .AddItem "Quiz 1"
    .AddItem "Quiz 2"
    .AddItem "Quiz 3"
    .AddItem "Project"
  End With


End Sub
```

**Auxiliary Code (Hardwired "save as" upon closing, open userform at start)**

```vba
Option Explicit


Private Sub Workbook_BeforeClose(Cancel As Boolean)
    ThisWorkbook.Close SaveChanges:=True


End Sub


Private Sub WorkBook_Open()
ImportTool.Show
End Sub
```