Sub Stock()

'Loop Through All Sheets

For Each ws In Worksheets

'Create Variables to hold different values used throughout the loop

Dim Total\_Stock\_Volume As Double

Dim Sotck\_Name As String

Dim Row\_Index As Integer

Dim Row\_Count As Long

Dim Yearly\_Change As Double

Dim Percentage\_Change As Double

Dim Open\_Price As Double

Dim Close\_Price As Double

'Determine the last row

LastRow = ws.Cells(Rows.Count, 1).End(xlUp).Row

'Setup Row\_index and and Row\_Count to 2

Row\_Index = 2

Row\_Count = 2

'Give title name to values in sheet

ws.Cells(1, 9).Value = "Ticker"

ws.Cells(1, 10).Value = "Yearly Change"

ws.Cells(1, 11).Value = "Percentage Change"

ws.Cells(1, 12).Value = "Total Stock Volume"

ws.Cells(1, 16).Value = "Ticker"

ws.Cells(1, 17).Value = "Value"

ws.Cells(2, 15).Value = "Greatest % Increase"

ws.Cells(3, 15).Value = "Greatest % Decrease"

ws.Cells(4, 15).Value = "Greatest Total Volume"

'Start For loop that goes through the stock data to find same stocks, adds total value, finds yearly change and percentage change

For i = 2 To LastRow

'If condition that starts when values on column A diverge; essentially when values in column A diverge, do the following:

If ws.Cells(i + 1, 1).Value <> ws.Cells(i, 1).Value Then

'Sets the Stock\_Name From the first value

Stock\_Name = ws.Cells(i, 1).Value

'Inserts the Stock name in summary Column

ws.Cells(Row\_Index, 9).Value = Stock\_Name

'Sets opening price of first stock

Open\_Price = ws.Cells(Row\_Count, 3).Value

'Sets closing price for the year on first stock

Close\_Price = ws.Cells(i, 6).Value

'Calculates the change

Yearly\_Change = Open\_Price - Close\_Price

'Inserts this change value into summary row

ws.Cells(Row\_Index, 10).Value = Yearly\_Change

'If statement to add green and red to values

If ws.Cells(Row\_Index, 10).Value >= 0 Then

ws.Cells(Row\_Index, 10).Interior.ColorIndex = 4

Else

ws.Cells(Row\_Index, 10).Interior.ColorIndex = 3

End If

'If statement to get over problem of dividing by zero. Also adds percentage change to summary table

If Open\_Price = 0 Then

ws.Cells(Row\_Index, 11).Value = Format(0, "Percent")

Else

ws.Cells(Row\_Index, 11).Value = Format((Yearly\_Change) / (ws.Cells(Row\_Count, 3).Value), "Percent")

End If

'Adds last row of value to total stock volume

Total\_Stock\_Volume = Total\_Stock\_Volume + ws.Cells(i, 7).Value

'Inserts addition of Total\_Stock\_Volume to summary table

ws.Cells(Row\_Index, 12).Value = Total\_Stock\_Volume

'Adds 1 to row\_index so that it continues adding value to the last row of summary table

Row\_Index = Row\_Index + 1

'Resets Total\_Stock\_Volume

Total\_Stock\_Volume = 0

'Resets Yearly Change

Yearly\_Change = 0

'Sets the row number for the Opening\_Price for the next stock

Row\_Count = i + 1

Else

'Adds Total Stock Volume from begging to lastrow of stock -1; You add the last row with the first if statement of <>

Total\_Stock\_Volume = Total\_Stock\_Volume + ws.Cells(i, 7).Value

End If

Next i

'Set Variables to Calculate Range for Summary COlumn to look for largest (Max) and smalles (Min) using worksheet function

Dim Rng As Range

Dim Rng2 As Range

Dim dblMin As Double

Dim dblMax As Double

Dim dblMax\_Stock As Double

'Set last row on summary table

LastRow = ws.Cells(Rows.Count, 11).End(xlUp).Row

'Start for loop on Summary table that gets a range for ALL values

For i = 2 To LastRow

'Set Range for Column K: Percentage Change

Set Rng = ws.Range("K2:K" & LastRow)

'Set Range for Total Stock Volume Column

Set Rng2 = ws.Range("L2:L" & LastRow)

'Use worksheet function to find Min and assign value to variable

dblMin = Application.WorksheetFunction.Min(Rng)

'Use worksheet function to find Max and assign value to variable

dblMax = Application.WorksheetFunction.Max(Rng)

'Use worksheet function to find Max and assign value to variable

dblMax\_Stock = Application.WorksheetFunction.Max(Rng2)

'Insert Min and Max value to desired cell

ws.Cells(2, 17).Value = Format(dblMax, "Percent")

ws.Cells(3, 17).Value = Format(dblMin, "Percent")

ws.Cells(4, 17).Value = dblMax\_Stock

'Reset Min and Max Value

dblMin = 0

dblMax = 0

dblMax\_Stock = 0

Next i

'Start For loop to find stock name that matches Max and Min Value and assign that stock name to cell value (similar to lotto excersice done in class)

For i = 2 To LastRow

If ws.Cells(i, 11).Value = ws.Cells(2, 17).Value Then

ws.Cells(2, 16).Value = ws.Cells(i, 9).Value

ElseIf ws.Cells(i, 11).Value = ws.Cells(3, 17).Value Then

ws.Cells(3, 16).Value = ws.Cells(i, 9).Value

ElseIf ws.Cells(i, 12).Value = ws.Cells(4, 17).Value Then

ws.Cells(4, 16).Value = ws.Cells(i, 9).Value

End If

Next i

Next ws

End Sub