Sub stock():

' declare all variables

Dim ticker As String

Dim YearEnd As Double

Dim tracker As Integer

Dim YearStart As Double

Dim volume As Double

Dim Change As Double

Dim ws As Worksheet

' make this cycle through each worksheet

For Each ws In Worksheets

' set variable values

volume = 0

tracker = 2

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

YearStart = ws.Range("C2").Value

' add column names to worksheets

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

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

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

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

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

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

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

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

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

' loop through all lines of data

For i = 2 To LastRow

' determine if we are within the same ticker info, this code is from the credit card activity in class

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

' set the ticker name

ticker = ws.Cells(i, 1).Value

' set the outputs wanted for the summary table

YearEnd = ws.Cells(i, 6).Value

Change = YearEnd - YearStart

volume = volume + ws.Cells(i, 7).Value

' add outputs to the summary table

ws.Range("I" & tracker).Value = ticker

ws.Range("J" & tracker).Value = Change

ws.Range("K" & tracker).Value = (Change / YearStart)

ws.Range("L" & tracker).Value = volume

' this code came from https://stackoverflow.com/questions/42844778/vba-for-each-cell-in-range-format-as-percentage

ws.Range("K" & tracker).NumberFormat = "0.00%"

' add color to cells to yearly change using conditional formatting, code found at https://www.automateexcel.com/vba/conditional-formatting/

Dim MyRange As Range

Set MyRange = ws.Range("J2:J3001")

MyRange.FormatConditions.Delete

MyRange.FormatConditions.Add Type:=xlCellValue, Operator:=xlLess, \_

Formula1:="=0"

MyRange.FormatConditions(1).Interior.ColorIndex = 3

MyRange.FormatConditions.Add Type:=xlCellValue, Operator:=xlGreater, \_

Formula1:="=0"

MyRange.FormatConditions(2).Interior.ColorIndex = 4

' do the same for the percentage change, code source same as above

Dim PerRange As Range

Set PerRange = ws.Range("K2:K3001")

PerRange.FormatConditions.Delete

PerRange.FormatConditions.Add Type:=xlCellValue, Operator:=xlLess, \_

Formula1:="=0"

PerRange.FormatConditions(1).Interior.ColorIndex = 3

PerRange.FormatConditions.Add Type:=xlCellValue, Operator:=xlGreater, \_

Formula1:="=0"

PerRange.FormatConditions(2).Interior.ColorIndex = 4

' reset variables

tracker = tracker + 1

start = i + 1

volume = 0

YearStart = ws.Cells(i + 1, 3).Value

Else

' add to stock volume if within the same ticker

volume = volume + ws.Cells(i, 7).Value

End If

Next i

' set variable to find greatest increase

Dim HighestChange As Double

HighestChange = 0

For j = 2 To 3001

' run loop to find new highest percentage increase and add values to table

If ws.Cells(j, 11).Value > HighestChange Then

HighestChange = ws.Cells(j, 11).Value

ws.Cells(2, 17).Value = HighestChange

ws.Cells(2, 17).NumberFormat = "0.00%"

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

End If

Next j

' set variable to find greatest decrease

Dim GreatestDecrease As Double

GreatestDecrease = 0

' run for loop to find minimum

For k = 2 To 3001

'replace variable with new lower number and add values to table

If ws.Cells(k, 11).Value < GreatestDecrease Then

GreatestDecrease = ws.Cells(k, 11).Value

ws.Cells(3, 17).Value = GreatestDecrease

ws.Cells(3, 17).NumberFormat = "0.00%"

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

End If

Next k

' set variable to find greatest stock volume increase

Dim HighestStock As LongLong

HighestStock = 0

For l = 2 To 3001

' run loop to find highest stock increase increase and add values to table

If ws.Cells(l, 12).Value > HighestStock Then

HighestStock = ws.Cells(l, 12).Value

ws.Cells(4, 17).Value = HighestStock

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

End If

Next l

Next ws

End Sub