Sub alpha\_data\_analysis():

For Each ws In Worksheets

'set Variables

Dim sheet\_nm As String

Dim ticker\_nm As Long

Dim data\_last\_row As Long

Dim results\_last\_row As Long

Dim percentage\_change As Double

'set column and row values

Dim i As Long

Dim j As Long

'part one headers

ws.Cells(1, 11).Value = "ticker"

ws.Cells(1, 12).Value = "yearly change"

ws.Cells(1, 13).Value = "percentage change"

ws.Cells(1, 14).Value = "total ctock volume"

ws.Cells(1, 18).Value = "ticker"

ws.Cells(1, 19).Value = "value"

ws.Cells(2, 17).Value = "max increase"

ws.Cells(3, 17).Value = "max decrease"

ws.Cells(4, 17).Value = "max total volume"

data\_last\_row = ws.Cells(Rows.Count, 1).End(xlUp).Row

ticker\_nm = 2

j = 2

'part one check ticker and yearly change

For i = 2 To data\_last\_row

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

ws.Cells(ticker\_nm, 11).Value = ws.Cells(i, 1).Value

ws.Cells(ticker\_nm, 12).Value = ws.Cells(i, 6).Value - ws.Cells(j, 3).Value

'color conditonal based on change ang change to currency for yearly change

If ws.Cells(ticker\_nm, 12).Value < 0 Then

ws.Cells(ticker\_nm, 12).Interior.ColorIndex = 3

Else

ws.Cells(ticker\_nm, 12).Interior.ColorIndex = 4

End If

Range("L:L").NumberFormat = "$#,##0.00"

'percentage change

If ws.Cells(j, 3).Value <> 0 Then

percentage\_change = ((ws.Cells(i, 6).Value - ws.Cells(j, 3).Value) / ws.Cells(j, 3).Value)

ws.Cells(ticker\_nm, 13).Value = Format(percentage\_change, "Percent")

Else

ws.Cells(ticker\_nm, 11).Value = Format(0, "Percent")

End If

ws.Cells(ticker\_nm, 14).Value = WorksheetFunction.Sum(Range(ws.Cells(j, 7), ws.Cells(i, 7)))

'ticker move on

ticker\_nm = ticker\_nm + 1

'change row of ticker

j = i + 1

End If

Next i

'part 2 loop

'set variables part 2

Dim greatest\_increase As Double

Dim greatest\_decrease As Double

Dim volume\_change As Double

'set headers part 2

ws.Cells(1, 18).Value = "ticker"

ws.Cells(1, 19).Value = "value"

ws.Cells(2, 17).Value = "max increase percentage"

ws.Cells(3, 17).Value = "max decrease percentage"

ws.Cells(4, 17).Value = "greatest total volume"

results\_last\_row = ws.Cells(Rows.Count, 11).End(xlUp).Row

volume\_change = ws.Cells(2, 14).Value

greatest\_increase = ws.Cells(2, 13).Value

greatest\_decrease = ws.Cells(2, 13).Value

For i = 2 To results\_last\_row

If ws.Cells(i, 14).Value > volume\_change Then

volume\_change = ws.Cells(i, 14).Value

ws.Cells(4, 18).Value = ws.Cells(i, 11).Value

Else

volume\_change = volume\_change

End If

If ws.Cells(i, 13).Value > greatest\_increase Then

ws.Cells(2, 18).Value = ws.Cells(i, 11).Value

Else

greatest\_increase = greatest\_increase

End If

If ws.Cells(i, 13).Value < greatest\_decrease Then

greatest\_decrease = ws.Cells(i, 13).Value

ws.Cells(3, 18).Value = ws.Cells(i, 11).Value

Else

greatest\_decrease = greatest\_decrease

End If

'part 2 results chart print

ws.Cells(2, 19).Value = Format(greatest\_increase, "Percent")

ws.Cells(3, 19).Value = Format(greatest\_decrease, "Percent")

ws.Cells(4, 19).Value = Format(volume\_change, "Scientific")

Next i

Next ws

End Sub