[Yichun Jin, VBA homework]

1. **Create a script that will loop through all the stocks for one year for each run and take the following information.**

Sub ticker()

Dim ticker As String

Dim TotalVolume As Double

Dim SummaryRow As Integer

Dim Start\_Price As Double

Dim Close\_Price As Double

Dim Yr\_change As Double

Dim Pr\_change As Double

TotalVolume = 0

SummaryRow = 2

Start\_Price = Cells(2, 3).Value

Yr\_change = Close\_Price - Start\_Price

Pr\_change = Yr\_change / Start\_Price

Range("J1") = "Ticker"

Range("K1") = "Yearly Change"

Range("L1") = "Precent Change"

Range("M1") = "Total Stock Volume"

For i = 2 To Cells(Rows.Count, "A").End(xlUp).Row

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

TotalVolume = TotalVolume + Cells(i, 7).Value

Range("J" & SummaryRow).Value = Cells(i, 1).Value

Range("M" & SummaryRow).Value = TotalVolume

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

'(how vba defined start price if we don't put its value here?)

Yr\_change = Close\_Price - Start\_Price

If Start\_Price <> 0 Then

Pr\_change = Yr\_change / Start\_Price

Else

Pr\_change = 0

End If

Range("K" & SummaryRow).Value = Yr\_change

Range("L" & SummaryRow).Value = Pr\_change

SummaryRow = SummaryRow + 1

TotalVolume = 0

Start\_Price = Cells(i + 1, 3).Value

Else

TotalVolume = TotalVolume + Cells(i, 7).Value

End If

Next i

End Sub

1. **You should also have conditional formatting that will highlight positive change in green and negative change in red.**

Sub highlights()

For i = 2 To Cells(Rows.Count, "A").End(xlUp).Row

If Cells(i, 11).Value >= 0 Then

Cells(i, 11).Interior.ColorIndex = 4

Else

Cells(i, 11).Interior.ColorIndex = 3

End If

Next i

End Sub

1. **Your solution will also be able to return the stock with the "Greatest % increase", "Greatest % Decrease" and "Greatest total volume". The solution will look as follows:**

Sub maxmin()

Dim Max As Double

Dim Min As Double

Dim Max\_Volume As Double

Range("O2") = "Greatest % Increase"

Range("O3") = "Greatest % Decrease"

Range("O4") = "Greatest Total Volume"

Range("P1") = "Ticker"

Range("Q1") = "Value"

Max = Application.WorksheetFunction.Max(Range("L2:L290"))

Min = Application.WorksheetFunction.Min(Range("L2:L290"))

Max\_Volume = Application.WorksheetFunction.Max(Range("M2:M290"))

Range("Q2") = Max

Range("Q3") = Min

Range("Q4") = Max\_Volume

For i = 2 To Cells(Rows.Count, "J").End(xlUp).Row

For j = 10 To 13

If Cells(i, j).Value = Max Then

Range("P2") = Cells(i, j - 2).Value

ElseIf Cells(i, j).Value = Min Then

Range("P3") = Cells(i, j - 2).Value

ElseIf Cells(i, j).Value = Max\_Volume Then

Range("P4") = Cells(i, j - 3).Value

End If

Next j

Next i

End Sub