Sub Stock\_tracker()

'Easy and medium Challenges (Hard challenge follows)

'Define variables

Dim printrow As Integer

Dim ticker As String

Dim oldvolume As Double

Dim newvolume As Double

Dim priceopen As Double

Dim priceclose As Double

Dim pricedif As Double

Dim percentchange As Double

' Label rows and columns

Range("I1") = "Ticker"

Range("J1") = "Year Diff"

Range("K1") = "% Change"

Range("L1") = "Total Volume"

' Set counters

oldvolume = 0

newvolume = 0

printrow = 2

priceopen = Cells(2, 3).Value

'Sum annual volume for each unique ticker symbol

For i = 2 To 760192

ticker = Cells(i, 1).Value

oldvolume = Cells(i, 7).Value

newvolume = oldvolume + newvolume

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

priceclose = Cells(i, 6).Value

'Range("i13") = priceopen

'Range("i14") = priceclose

pricedif = priceclose - priceopen

If priceopen = 0 Then

Cells(printrow, 11).Value = 0

ElseIf priceopen <> 0 Then

percentchange = pricedif / priceopen

End If

Cells(printrow, 9).Value = ticker

Cells(printrow, 10).Value = pricedif

Cells(printrow, 11).Value = percentchange

Cells(printrow, 12).Value = newvolume

printrow = printrow + 1

oldvolume = 0

newvolume = 0

priceopen = Cells(i + 1, 3).Value

End If

Next i

' Hard Challenge

' Define variables

Dim greatinc As Double

Dim greatdec As Double

Dim incticker As String

Dim decticker As String

Dim greatvol As Long

Dim volticker As String

' Label rows and columns

Range("O1") = "Ticker"

Range("P1") = "Amount"

Range("N2") = "Greatest % Inc"

Range("N3") = "Greatest % Dec"

Range("N4") = "Greatest Volume"

'Find stock with largest volume

decticker = Cells(2, 9).Value

incticker = Cells(2, 9).Value

volticker = Cells(2, 9).Value

greatinc = Cells(2, 11).Value

greatdec = Cells(2, 11).Value

greatvolume = Cells(2, 12).Value

For j = 3 To 10000

' I use my own method (if ticker = "") to determine last row. I use an artifically high number (10,000) in the for loop

If Cells(j, 9).Value = "" Then

Cells(4, 15).Value = volticker

Cells(4, 16).Value = greatvolume

Exit For

ElseIf Cells(j, 12).Value > greatvolume Then

greatvolume = Cells(j, 12).Value

volticker = Cells(j, 9).Value

End If

Cells(4, 15).Value = volticker

Cells(4, 16).Value = greatvol

'Determine stocks with greatest % price increase and worst % decline

If Cells(j, 9).Value = "" Then

'print results

Cells(2, 15).Value = incticker

Cells(3, 15).Value = decticker

Cells(2, 16).Value = greatinc

Cells(3, 16).Value = greatdec

Exit For

ElseIf Cells(j, 11).Value <= greatdec Then

decticker = Cells(j, 9).Value

greatdec = Cells(j, 11).Value

ElseIf Cells(j, 11).Value > greatinc Then

incticker = Cells(j, 9).Value

greatinc = Cells(j, 11).Value

End If

'print results

Cells(2, 15).Value = incticker

Cells(3, 15).Value = decticker

Cells(2, 16).Value = greatinc

Cells(3, 16).Value = greatdec

Next j

End Sub