Sub VBAHomework()

'Set-up to loopthrough every worksheet in workbook

For Each ws In Worksheets

ws.Activate

Call StockReport

Next ws

End Sub

Sub StockReport()

Dim Ticker As String

Dim NextTicker As String

Dim PrevTicker As String

Dim CurrentRow As Long

Dim TradeVol As Double

Dim YoYChange As Currency

Dim YoYPercentage As Double

Dim LastRow As Long

Dim ReportRow As Long

Dim YearOpenPrice As Currency

Dim YearClosePrice As Currency

Dim wbk As Workbook

Dim wks As Worksheet

Set wbk = ThisWorkbook

'Add headings and formats for output columns j-m in workbook A

Cells(1, 10).Value = "Ticker"

Cells(1, 11).Value = "Year Change"

Cells(1, 12).Value = "Percent Change"

Cells(1, 13).Value = "Total Volume"

Range("j1:M1").Font.Bold = True

Range("j1:M1").Interior.ColorIndex = 15

Range("J:m").EntireColumn.AutoFit

'Create a Best/worst performance table

Cells(2, 16).Value = "Greatest % increase"

Cells(3, 16).Value = "Greatest % decrease"

Cells(4, 16).Value = "Greatest total volume"

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

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

'start the reporting loop at row two - this will be incremented for adding data to the report row

ReportRow = 2

'Figure out the LastRow of populated data so you can limit run time of loop.

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

For CurrentRow = 2 To LastRow

'Use Ticker variables to compare the ticker symbols to start a new loop when the symbol changes

'Also used to identify the Year Open Price - the first open price with a new ticker

Ticker = Cells(CurrentRow, 1).Value

NextTicker = Cells(CurrentRow + 1, 1).Value

PrevTicker = Cells(CurrentRow - 1, 1).Value

If Ticker = NextTicker Then

'Conditional Check for First Entry

If Ticker <> PrevTicker Then

YearOpenPrice = Cells(CurrentRow, 3).Value

'Debug.Print ("YearOpenPrice is " & YearOpenPrice)

End If

'Add daily trade volume

TradeVol = TradeVol + Cells(CurrentRow, 7).Value

'When the final row for the current ticker is reached - do the calculations for the year

Else:

YearClosePrice = Cells(CurrentRow, 6).Value

'Now we have the YearClose as well as open so we can begin our calculations

YoYChange = YearClosePrice - YearOpenPrice

'To calculate Year over Year Percentage and we cannot divide by zero the following cares for that

If YearOpenPrice = 0 Then

Dim ZeroOpen As Double

ZeroOpen = 0

Cells(ReportRow, 12).Value = ZeroOpen

Else

YoYPercentage = YoYChange / YearOpenPrice

Cells(ReportRow, 12).Value = FormatPercent(YoYPercentage)

End If

'Add the final day trade volume to get the total trade volume for the year

TradeVol = TradeVol + Cells(CurrentRow, 7).Value

'Record values into the Stock Report

Cells(ReportRow, 13).Value = TradeVol

Cells(ReportRow, 10).Value = Ticker

Cells(ReportRow, 11).Value = YoYChange

'Format year over year change to show gains (green) and losses (red)

If YoYChange > 0 Then

Cells(ReportRow, 11).Interior.ColorIndex = 43

Else

'I did not like the lack of readability of setting the color index to red - 3 So I used bad style

'If you want to change To the default red - uncomment the next line and comment out the Style line

'Cells(ReportRow, 11).Interior.ColorIndex = 3

Cells(ReportRow, 11).Style = "Bad"

End If

'Increment row for reporting the data

ReportRow = ReportRow + 1

'Reset TradeVol to zero for next ticker

TradeVol = 0

End If

Next CurrentRow

'Use the loop to record ticker and values for the challenge

'ReportRow is the last row in the report at this point

'Need to set up variables to hold the performance data and ticker

Dim BestPctInc As Double

Dim BestTicker As String

Dim WorstPctInc As Double

Dim WorstTicker As String

Dim MostVolume As Double

Dim MostVolTicker As String

'Initialize Variables to the first set of values - The loop will compae each in turn to find Best;Worst;Most

BestPctInc = Cells(2, 12).Value

BestTicker = Cells(2, 10).Value

WorstPctInc = Cells(2, 12).Value

WorstTicker = Cells(2, 10).Value

MostVolume = Cells(2, 13).Value

MostVolTicker = Cells(2, 10).Value

For CR = 3 To ReportRow

If Cells(CR, 12).Value > BestPctInc Then

BestPctInc = Cells(CR, 12).Value

BestTicker = Cells(CR, 10).Value

End If

If Cells(CR, 12).Value < WorstPctInc Then

WorstPctInc = Cells(CR, 12).Value

WorstTicker = Cells(CR, 10).Value

End If

If Cells(CR, 13).Value > MostVolume Then

MostVolume = Cells(CR, 13).Value

MostVolTicker = Cells(CR, 10).Value

End If

Next CR

'Record the values from the loop into the table

Cells(2, 17).Value = BestTicker

Cells(2, 18).Value = FormatPercent(BestPctInc)

Cells(3, 17).Value = WorstTicker

Cells(3, 18).Value = FormatPercent(WorstPctInc)

Cells(4, 17).Value = MostVolTicker

Cells(4, 18).Value = MostVolume

Range("J:M").EntireColumn.AutoFit

Range("P:R").EntireColumn.AutoFit

End Sub