‘Objective: Analyze stock data by looping through each year to find the total amount of stock, display ticker symbol to match yearly total volume, find yearly change from what the price opened to what the price closed that year and find the percent change of where it opened the year and where it closed.

‘Dataset: Taking a look at the years 2014, 2015 & 2016 using the stock data file Mutiple\_Year\_Stock\_Data

Sub YearlyStockData()

'Set initial variable for all worksheets in the workbook

Dim ws As Worksheet

'Set inital variable for holding the stock ticker name

Dim Ticker As String

'Set inital variable for holding the total volume of stocks per ticker

Dim Total\_Stock\_Volume As Double

'Set inital variable for holding the summary table row

Dim Summary\_Table\_Row As Integer

'Set inital variable for holding stock's yearly change

Dim Yearly\_Change As Single

'Set inital variable for holding stock's open price

Dim Open\_Price As Single

'Set intial variable for holding stock's percent change

Dim Percent\_Change As Single

'Set intial variable for percent change display

Dim Percent\_Change\_Report As String

'Loop that opens each worksheet in workbook

For Each ws In Worksheets

ws.Activate

'Set total stock volume counter to zero

Total\_Stock\_Volume = 0

'Set total yearly change counter to zero

Yearly\_Change = 0

'Set stock's open price to zero

Open\_Price = 0

'Set cell pointer to start in 2nd row of the summary table

Summary\_Table\_Row = 2

'Set percent change to zero

Percent\_Change = 0

'Printing header to ticker column for each worksheet.

ws.Range("I1").Value = "Ticker"

'Printing header to yearly change column for each worksheet

ws.Range("J1").Value = "Yearly Change"

'Printing header to percent change column for each worksheet

ws.Range("K1").Value = "Percent Change"

'Printing header to total stock volume column for each worksheet

ws.Range("L1").Value = "Total Stock Volume"

'Defining location of last row

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

'Looping through rows 2 til the last row

For i = 2 To LastRow

'Check if we are still within the same stock ticker name, if it is not...

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

'Set the stock ticker name

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

'Add all stock volume for ticker name

Total\_Stock\_Volume = Total\_Stock\_Volume + ws.Cells(i, 7).Value

'Stock's yearly change equation

Yearly\_Change = ws.Cells(i, 6).Value - Open\_Price

'Check if open price less than or equal to zero

If Open\_Price <> 0 Then

'If open price has a value then run Percent change formula

Percent\_Change = Yearly\_Change / Open\_Price

'Else set yearly change value to zero

ElseIf Yearly\_Change = 0 Then

'Set percnet change to zero

Percent\_Change = 0

'End If

End If

'Format percent change report column to display number as percentages

Percent\_Change\_Report = FormatPercent(Percent\_Change, 2)

'Display Ticker value in column

ws.Range("I" & Summary\_Table\_Row).Value = Ticker

'Display Yearly Change value in column

ws.Range("J" & Summary\_Table\_Row).Value = Yearly\_Change

'Display Percent Change Report in column

ws.Range("K" & Summary\_Table\_Row).Value = Percent\_Change\_Report

'Display Total Stock Volume in column

ws.Range("L" & Summary\_Table\_Row).Value = Total\_Stock\_Volume

'Add to the Summary Table Row

Summary\_Table\_Row = Summary\_Table\_Row + 1

'Reset the Total Stock Volume to zero

Total\_Stock\_Volume = 0

'Reset the Open Price to zero

Open\_Price = 0

'Reset the Yearly Change to zero

Yearly\_Change = 0

'Reset the Percent Change to zero

Percent\_Change = 0

Else

'Add to Total Stock Volume

Total\_Stock\_Volume = Total\_Stock\_Volume + Cells(i, 7).Value

'Check if still using the same stock ticker name, if not...

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

'Add to the open price

Open\_Price = Cells(i, 3).Value

' Check if Yearly Change results are positive or negative...

If ws.Range("J" & Summary\_Table\_Row).Value >= 0 Then

' Color the positive results green

ws.Range("J" & Summary\_Table\_Row).Interior.ColorIndex = 4

' Else results Yearly Change results are negative

Else

' Color negative results red

ws.Range("J" & Summary\_Table\_Row).Interior.ColorIndex = 3

'End conditional formatting

End If

'End open price if statement

End If

'End stock ticker name if statement

End If

'Next row

Next i

'Next worksheet

Next ws

End Sub