Sub Stocks()

'loop to cycle through the worksheets in the workbook

'Set a variable to cycle through the worksheets

Dim ws As Worksheet

'Start loop

For Each ws In Worksheets

'Create column labels for the summary table

ws.Cells(1, 9).Value = "Ticker Symbol"

ws.Cells(1, 10).Value = "Yearly Change"

ws.Cells(1, 11).Value = "Percent Change"

ws.Cells(1, 12).Value = "Total Stock Volume"

Dim ticker\_symbol As String

Dim total\_vol As Double

total\_vol = 0

Dim rowcount As Long

rowcount = 2

'Set variable to hold year open price

Dim year\_open As Long

year\_open = 0

'Set variable to hold year close price

Dim year\_close As Long

year\_close = 0

'Set variable to hold the change in price for the year

Dim year\_change As Double

year\_change = 0

'Set variable to hold the percent change in price for the year

Dim percent\_change As Double

percent\_change = 0

'Set variable for total rows to loop through

Dim lastrow As Long

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

'Loop to search through ticker symbols

For i = 2 To lastrow

'Conditional to grab year open price

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

year\_open = ws.Cells(i, 3).Value

End If

'Total up the volume for each row to determine the total stock volume for the year

total\_vol = total\_vol + ws.Cells(i, 7)

'determine if the ticker symbol is changing

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

'Move ticker symbol to sum table

ws.Cells(rowcount, 9).Value = ws.Cells(i, 1).Value

'Move total stock volume to the sum table

ws.Cells(rowcount, 12).Value = total\_vol

'Grab year end price

year\_close = ws.Cells(i, 6).Value

'price change for the year and move it to the sum table.

year\_change = year\_close - year\_open

ws.Cells(rowcount, 10).Value = year\_change

'format to highlight positive or negative change.

If year\_change >= 0 Then

ws.Cells(rowcount, 10).Interior.ColorIndex = 43

Else

ws.Cells(rowcount, 10).Interior.ColorIndex = 30

End If

'Calculate the percent change for the year and move it to the summary table format as a percentage

'Conditional for calculating percent change

If year\_open = 0 And year\_close = 0 Then

'Starting at zero and ending at zero will be a zero increase. Cannot use a formula because

'it would be dividing by zero.

percent\_change = 0

ws.Cells(rowcount, 11).Value = percent\_change

ws.Cells(rowcount, 11).NumberFormat = "0%"

ElseIf year\_open = 0 Then

'If a stock starts at zero and increases, it grows by infinite percent.

'Because of this, we only need to evaluate actual price increase by dollar amount and therefore put

'"New Stock" as percent change.

Dim percent\_change\_NA As String

percent\_change\_NA = "New Stock"

ws.Cells(rowcount, 11).Value = percent\_change

Else

percent\_change = year\_change / year\_open

ws.Cells(rowcount, 11).Value = percent\_change

ws.Cells(rowcount, 11).NumberFormat = "0%"

End If

'Add 1 to rowcount to move it to the next empty row in the sum table

rowcount = rowcount + 1

'Reset total stock volume, year open price, year close price, year change, year percent change

total\_vol = 0

year\_open = 0

year\_close = 0

year\_change = 0

percent\_change = 0

End If

Next i

'best and worst performance table

'Titles

ws.Cells(2, 15).Value = "Greatest % Increase"

ws.Cells(3, 15).Value = "Greatest % Decrease"

ws.Cells(4, 15).Value = "Greatest Total Volume"

ws.Cells(1, 16).Value = "Ticker"

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

'Assign lastrow to count the number of rows in the sum table

lastrow = ws.Cells(Rows.Count, 9).End(xlUp).Row

'Set variables to hold best performer, worst performer, and stock with the most volume

Dim best\_stock As String

Dim best\_value As Long

'Set best performer equal to the first stock

best\_value = ws.Cells(2, 11).Value

Dim worst\_stock As String

Dim worst\_value As Long

'Set worst performer equal to the 1st stock

worst\_value = ws.Cells(2, 11).Value

Dim most\_vol\_stock As String

Dim most\_vol\_value As Double

'Set most volume equal to the 1st stock

most\_vol\_value = ws.Cells(2, 12).Value

'Loop to search through sum table

For j = 2 To lastrow

'Conditional to determine best performer

If ws.Cells(j, 11).Value > best\_value Then

best\_value = ws.Cells(j, 11).Value

best\_stock = ws.Cells(j, 9).Value

End If

'Conditional to determine worst performer

If ws.Cells(j, 11).Value < worst\_value Then

worst\_value = ws.Cells(j, 11).Value

worst\_stock = ws.Cells(j, 9).Value

End If

'determine stock with the greatest volume traded

If ws.Cells(j, 12).Value > most\_vol\_value Then

most\_vol\_value = ws.Cells(j, 12).Value

most\_vol\_stock = ws.Cells(j, 9).Value

End If

Next j

'Move best performer, worst performer, and stock with the most volume items to the performance table

ws.Cells(2, 16).Value = best\_stock

ws.Cells(2, 17).Value = best\_value

ws.Cells(2, 17).NumberFormat = "0%"

ws.Cells(3, 16).Value = worst\_stock

ws.Cells(3, 17).Value = worst\_value

ws.Cells(3, 17).NumberFormat = "0%"

ws.Cells(4, 16).Value = most\_vol\_stock

ws.Cells(4, 17).Value = most\_vol\_value

'Autofit table columns

ws.Columns("I:L").EntireColumn.AutoFit

ws.Columns("O:Q").EntireColumn.AutoFit

Next ws

End Sub