VBA-challenge

Below you will find the code for the VBA-challenge

Used to learn how to run on multiple sheets: https://www.extendoffice.com/documents/excel/5333-excel-run-macro-multiple-sheets.html

**CODE**

Sub Loop\_Sheets()

Dim xSh As Worksheet

Application.ScreenUpdating = False

For Each xSh In Worksheets

Ticker\_Info xSh

Next

Application.ScreenUpdating = True

End Sub

Sub Ticker\_Info(ws As Worksheet)

Dim Ticker\_Name As String

Dim StartPrice As Double

Dim EndPrice As Double

Dim ValueChange As Double

Dim PercentChange As Double

Dim Volume As Double

Dim G\_Perc\_Inc As Double

Dim G\_Perc\_Dec As Double

Dim G\_Tot\_Vol As Double

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

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

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

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

ws.Range("P2").Value = "Greatest % Increase"

ws.Range("P3").Value = "Greatest % Decrease"

ws.Range("P4").Value = "Greatest Total Volume"

Dim Summary\_Table\_Row As Integer

Summary\_Table\_Row = 2

Dim LastRow As Long

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

' Define variables to keep track of data for each ticker

Dim CurrentTicker As String

Dim TickerRow As Long

' Loop through all stock info on the provided worksheet 'ws'

For i = 2 To LastRow

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

If Ticker\_Name <> CurrentTicker Then

' If a new ticker is encountered, calculate and display data for the previous ticker

If CurrentTicker <> "" Then

ws.Cells(TickerRow, 10).Value = EndPrice - StartPrice

ws.Cells(TickerRow, 11).Value = (EndPrice - StartPrice) / StartPrice

ws.Cells(TickerRow, 12).Value = Volume

End If

' Update the current ticker and reset variables

CurrentTicker = Ticker\_Name

StartPrice = ws.Cells(i, 3).Value

Volume = 0

TickerRow = Summary\_Table\_Row

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

End If

EndPrice = ws.Cells(i, 6).Value

Volume = Volume + ws.Cells(i, 7).Value

Next i

' Calculate and display data for the last ticker in the worksheet

ws.Cells(TickerRow, 10).Value = EndPrice - StartPrice

ws.Cells(TickerRow, 11).Value = (EndPrice - StartPrice) / StartPrice

ws.Cells(TickerRow, 12).Value = Volume

' Highlight positive and negative percent changes

Dim LastRowI As Long

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

For k = 2 To LastRowI

If ws.Cells(k, 11).Value > 0 Then

ws.Cells(k, 11).Interior.Color = vbGreen

ElseIf ws.Cells(k, 11).Value < 0 Then

ws.Cells(k, 11).Interior.Color = vbRed

ElseIf ws.Cells(k, 11).Value = 0 Then

ws.Cells(k, 11).Interior.Color = vbYellow

End If

Next k

' Find the greatest % increase, % decrease, and total volume

G\_Perc\_Inc = WorksheetFunction.Max(ws.Range("K2:K" & LastRowI))

G\_Perc\_Dec = WorksheetFunction.Min(ws.Range("K2:K" & LastRowI))

G\_Tot\_Vol = WorksheetFunction.Max(ws.Range("L2:L" & LastRowI))

ws.Range("Q2").Value = G\_Perc\_Inc

ws.Range("Q3").Value = G\_Perc\_Dec

ws.Range("Q4").Value = G\_Tot\_Vol

End Sub

Below you will find the screenshots for 2018, 2019, and 2020





