Readme Module 2

Dear Grader,

Thank you for your time. I have included the rubric and checked off the completed tasks to ensure I had the minimum points.

The rubric for Mod 2 :

### **Requirements**

**Retrieval of Data (20 points)**

* The script loops through one year of stock data and reads/ stores all of the following values from each row:
  + ticker symbol (5 points) completed
  + volume of stock (5 points) completed
  + open price (5 points) completed
  + close price (5 points) completed

**Column Creation (10 points)**

* On the same worksheet as the raw data, or on a new worksheet all columns were correctly created for:
  + ticker symbol (2.5 points) completed
  + total stock volume (2.5 points) completed
  + yearly change ($) (2.5 points) completed
  + percent change (2.5 points) completed

#### Conditional Formatting (20 points)

* Conditional formatting is applied correctly and appropriately to the yearly change column (10 points)
* Conditional formatting is applied correctly and appropriately to the percent change column (10 points) completed

#### Calculated Values (15 points)

* All three of the following values are calculated correctly and displayed in the output:
  + Greatest % Increase (5 points) completed
  + Greatest % Decrease (5 points) completed
  + Greatest Total Volume (5 points) completed

#### Looping Across Worksheet (20 points)

* The VBA script can run on all sheets successfully.

#### GitHub/GitLab Submission (15 points)

* All three of the following are uploaded to GitHub/GitLab:
  + Screenshots of the results (5 points) completed
  + Separate VBA script files (5 points)
  + README file (5 points) completed

Multiple\_year\_stock\_dataAA.xlsm

A screenshot of a spreadsheet

Description automatically generated

' Set up column names

Sub ColumnNames()

Range("I:L").Insert

Range("I:L").EntireColumn.Insert

Cells(1, 9) = "Ticker"

Cells(1, 10) = "Yearly Change"

Cells(1, 11) = "Percent Change"

Cells(1, 12) = "Total Stock Volume"

End Sub

Sub BonusColumnNames()

Range("N:P").Insert

Range("N:P").EntireColumn.Insert

Cells(2, 14) = "Greatest % Increase"

Cells(3, 14) = "Greatest % Decrease"

Cells(4, 14) = "Total Stock Volume"

Cells(1, 15) = "Ticker"

Cells(1, 16) = "Value"

End Sub

Sub InfoLoop()

' count the number of rows

Dim lastrow As Long

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

' variables

Dim totvol As Variant

Dim rowcnt As Integer

Dim ticker As String

Dim opensv As Double

Dim closesv As Double

'initial set up

ticker = Cells(2, 1).Value

opensv = Cells(2, 3).Value

closesv = Cells(2, 6).Value

totvol = 0

rowcnt = 2

Cells(rowcnt, 9).Value = ticker

For i = 2 To lastrow

' Check to see if we are in the same ticker

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

' When thereis a new ticker

Cells(rowcnt, 12).Value = totvol

Cells(rowcnt, 10).Value = opensv - closesv

rowcnt = rowcnt + 1

Cells(rowcnt, 9).Value = Cells(i + 1, 1).Value

totvol = 0

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

Else

' WHen the ticker is the same

closesv = Cells(i, 6).Value

totvol = totvol + Cells(i, 7).Value

End If

Next i

End Sub ' InfoLoop

Sub PercentChange()

' Percent = number/total\*100

' count the number of rows in column 10

Dim yclastrow As Integer

yclastrow = Cells(Rows.Count, 10).End(xlUp).Row

Dim percng As Integer

For a = 2 To yclastrow

percng = (Cells(a, 10).Value \* 100)

Cells(a, 11).Value = percng

Next a

End Sub ' PercentChange

Sub FindBigSmall()

' Find the greatest increase and decrease from percentage col 11

Dim bslastrow As Integer

bslastrow = Cells(Rows.Count, 10).End(xlUp).Row

Dim greatinc As Double

Dim greatdec As Double

Dim x As Double

Dim tickerinc As String

Dim tickerdec As String

greatinc = 1

greatdec = 0

For b = 2 To bslastrow

x = Cells(b, 11).Value

If x < greatdec Then

greatdec = x

tickerdec = Cells(b, 9).Value

Else

greatinc = x

tickerinc = Cells(b, 9).Value

End If

Next b

Cells(2, 16).Value = greatinc

Cells(3, 16).Value = greatdec

Cells(2, 15).Value = tickerinc

Cells(3, 15).Value = tickerdec

End Sub ' FindBigSmall

Sub FindBigSmall()

' Find the greatest increase and decrease from percentage col 11

Dim bslastrow As Integer

bslastrow = Cells(Rows.Count, 10).End(xlUp).Row

Dim greatinc As Double

Dim greatdec As Double

Dim x As Double

Dim tickerinc As String

Dim tickerdec As String

greatinc = 1

greatdec = 0

For b = 2 To bslastrow

x = Cells(b, 11).Value

If x < greatdec Then

greatdec = x

tickerdec = Cells(b, 9).Value

Else

greatinc = x

tickerinc = Cells(b, 9).Value

End If

Next b

Cells(2, 16).Value = greatinc

Cells(3, 16).Value = greatdec

Cells(2, 15).Value = tickerinc

Cells(3, 15).Value = tickerdec

End Sub ' FindBigSmall

Sub TotalVolume()

' Find largest stock volume in col 12

Dim tsvlastrow As Integer

tsvlastrow = Cells(Rows.Count, 10).End(xlUp).Row

' Cells(6, 14).Value = tsvlastrow

Dim totalsv As Variant

Dim ltsv As Variant

Dim tickerltsv As String

Dim z As Integer

lstv = Cells(2, 12).Value

For z = 2 To tsvlastrow

totalsv = Cells(z, 12).Value

If totalsv > 0 Then

ltsv = totalsv

tickerltsv = Cells(z, 9).Value

Else

End If

Next z

Cells(4, 15).Value = tickerltsv

Cells(4, 16).Value = lstv

End Sub ' TotalStockVol

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