Sub Stock\_Volume\_Count()

' Laura De Morneau Feb.26.2019 Homework 2

'Calculation of the Total Stock Volume for each Ticker ID on 3 worksheets in one workbook

'this work includes the Yearly Change for the open-close of stock market and the Greatest

'and Lowest Percentage Change.

'Dimension assigned by variables

'Amount of worksheets is indicated by

Dim Sheet\_Count As Integer

'Amount of volume added based on the label ticker

Dim Total\_Stock\_Volume As Double

'Ticker Data are characters therefore they are assigned as strings

Dim Ticker\_ID As String

'New Ticker will be used to store Ticker ID for the Greatest Total Volume

Dim New\_Ticker As String

'Ticker IP to store data for Greatest Percentage Increase Ticker ID

Dim Ticker\_IP As String

'Ticker Dp for Greatest Percentage Decrease Ticker ID

Dim Dp\_Ticker As String

'Number of lines in a column

Dim Line\_Count\_Max As Long

Dim Record\_Count As Long

'Row count for the heading

Dim Position\_Count\_R As Integer

'Column count for the heading

Dim Postion\_Count\_C As Integer

'Assignation for the counter of rows

Dim row\_ct As Long

'Arrays to store Total Value Data per each active sheet

Dim Greatest\_Total\_Value(3) As Double

Dim Greatest\_Percent\_Increase(3) As Double

Dim Greatest\_Percent\_Decrease(3) As Double

'Single Maximun or Minimun value

Dim Greatest\_Value As Double

Dim Percent\_Increase As Double

Dim Percent\_Decrease As Double

'Assigning values for open and close Market Yearly Change

Dim open\_value As Double

Dim end\_value As Double

'To run the last for loop

Dim i As Double

open\_value = 0

end\_value = 0

Sheet\_Count = 1

'Coding first for to activate one by one a worksheet

For Sheet\_Count = 1 To 3

Worksheets(Sheet\_Count).Activate

'Position for the header first value (2,9)

Position\_Count\_R = 2

Position\_Count\_C = 9

row\_ct = 2

Total\_Stock\_Volume = 0

open\_value = 0

end\_value = 0

'Data Characters for the Ticker column

Ticker\_ID = Cells(row\_ct, 1).Value

Line\_Count\_Max = WorksheetFunction.CountA(Range("A2:A797711"))

'Second for to move inside a worksheet

For Record\_Count = 2 To (Line\_Count\_Max - 1)

Cells(1, 9) = "Ticker ID"

Cells(1, 10) = "Yearly Change"

Cells(1, 11) = "Percent Change"

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

open\_value = Cells(row\_ct, 3).Value

'Addition of value while the ticker label remains the same

Do While Cells(row\_ct, 1).Value = Ticker\_ID

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

row\_ct = row\_ct + 1

Loop

end\_value = Cells((row\_ct - 1), 6).Value

Cells(Position\_Count\_R, Position\_Count\_C) = Ticker\_ID

Cells(Position\_Count\_R, (Position\_Count\_C + 3)) = Total\_Stock\_Volume

Cells(Position\_Count\_R, (Position\_Count\_C + 1)) = (end\_value - open\_value)

If open\_value > 0 Then

Cells(Position\_Count\_R, (Position\_Count\_C + 2)) = ((end\_value - open\_value) / open\_value)

'Calculate percent change if close is not zero

'Placing select color in cells based on greater or lower than zero

If (end\_value - open\_value) > 0 Then

'GREEN cells color for values greater than zero

Cells(Position\_Count\_R, (Position\_Count\_C + 1)).Interior.Color = RGB(198, 212, 60)

Else

'RED cells color for values less than zero (zero values cells are blank)

Cells(Position\_Count\_R, (Position\_Count\_C + 1)).Interior.Color = RGB(255, 0, 0)

End If

Else

Cells(Position\_Count\_R, (Position\_Count\_C + 2)) = 0

End If

Total\_Stock\_Volume = 0

Position\_Count\_R = Position\_Count\_R + 1

Ticker\_ID = Cells(row\_ct, 1).Value

Record\_Count = row\_ct

Next

Worksheets(Sheet\_Count).Columns("J:Q").AutoFit

Greatest\_Total\_Value(Sheet\_Count) = WorksheetFunction.Max(Range("L2:L43398"))

Greatest\_Percent\_Increase(Sheet\_Count) = WorksheetFunction.Max(Range("K2:K3200"))

Greatest\_Percent\_Decrease(Sheet\_Count) = WorksheetFunction.Min(Range("K2:K3200"))

Next

'Calculating the maximun and minimun increase and decrease

For Sheet\_Count = 1 To 3

Cells(Sheet\_Count + 2, 19) = Greatest\_Total\_Value(Sheet\_Count)

Cells(Sheet\_Count + 2, 20) = Greatest\_Percent\_Decrease(Sheet\_Count)

Cells(Sheet\_Count + 2, 21) = Greatest\_Percent\_Increase(Sheet\_Count)

Greatest\_Value = WorksheetFunction.Max(Range("S:S"))

Percent\_Increase = WorksheetFunction.Max(Range("U:U"))

Percent\_Decrease = WorksheetFunction.Min(Range("T:T"))

Next

'Third and fourth for loop to find the corresponding ticker label to maximun and minimun increase or decrease

For Sheet\_Count = 1 To 3

Worksheets(Sheet\_Count).Activate

Line\_Count\_Max = WorksheetFunction.CountA(Range("A2:A797711"))

For i = 2 To (Line\_Count\_Max - 1)

If Greatest\_Value = Cells(i, 12).Value Then

New\_Ticker = Cells(i, 9).Value

ElseIf Percent\_Increase = Cells(i, 11).Value Then

Ticker\_IP = Cells(i, 9).Value

End If

If Percent\_Decrease = Cells(i, 11).Value Then

Dp\_Ticker = Cells(i, 9).Value

End If

Next

Next

Cells(1, 15) = " "

Cells(1, 16) = " "

Cells(1, 17) = " "

Cells(1, 16) = "Ticker ID"

Cells(1, 17) = "Value "

Cells(2, 15) = "Greater % Increase"

Cells(3, 15) = "Greater % Decrease"

Cells(4, 15) = "Greatest Total Volume"

Cells(4, 17) = Greatest\_Value

Cells(4, 16) = New\_Ticker

Cells(2, 17) = Percent\_Increase \* 100 & "%"

Cells(2, 16) = Ticker\_IP

Cells(3, 17) = Percent\_Decrease \* 100 & "%"

Cells(3, 16) = Dp\_Ticker

'to clear columns needed to store arrays

Columns("S:U").Clear

End Sub