**VBA HomeWork Script**

Private pTicker As String

Private pOpenPrice As Double

Private pClosePrice As Double

Private pVolume As Double

Private pOpenDate As String

Private pCloseDate As String

Public Property Get CloseDate() As String

CloseDate = pCloseDate

End Property

Public Property Let CloseDate(Value As String)

pCloseDate = Value

End Property

Public Property Get OpenDate() As String

OpenDate = pOpenDate

End Property

Public Property Let OpenDate(Value As String)

pOpenDate = Value

End Property

Public Property Get Ticker() As String

Ticker = pTicker

End Property

Public Property Let Ticker(Value As String)

pTicker = Value

End Property

Public Property Get OpenPrice() As Double

OpenPrice = pOpenPrice

End Property

Public Property Let OpenPrice(Value As Double)

pOpenPrice = Value

End Property

Public Property Get ClosePrice() As Double

ClosePrice = pClosePrice

End Property

Public Property Let ClosePrice(Value As Double)

pClosePrice = Value

End Property

Public Property Get Volume() As Double

Volume = pVolume

End Property

Public Property Let Volume(Value As Double)

pVolume = Value

End Property

Public Property Get Change() As Double

Change = pClosePrice - pOpenPrice

End Property

Public Property Get PercentChange() As Double

If pOpenPrice = 0 Then

PercentChange = 1 'Maybe

ElseIf Change = 0 Then

PercentChange = 0

Else

PercentChange = Change / pOpenPrice

End If

End Property

Sub Calculate()

Dim stockDictionary As New Scripting.Dictionary

For Each s In ActiveWorkbook.Worksheets

For Each r In s.Rows

If r.Cells(1).Value = "" Then Exit For

If r.Cells(1).Value <> "<ticker>" Then

Dim Ticker As String

Dim OpenPrice As Double

Dim ClosePrice As Double

Dim Volume As Long

Ticker = r.Cells(1).Value

ValueDate = Trim(r.Cells(2).Value)

OpenPrice = r.Cells(3).Value

ClosePrice = r.Cells(6).Value

Volume = r.Cells(7).Value

If stockDictionary.Exists(Ticker) Then

If stockDictionary(Ticker).OpenDate > ValueDate Then

stockDictionary(Ticker).OpenPrice = OpenPrice

stockDictionary(Ticker).OpenDate = ValueDate

End If

If stockDictionary(Ticker).CloseDate < ValueDate Then

stockDictionary(Ticker).ClosePrice = ClosePrice

stockDictionary(Ticker).CloseDate = ValueDate

End If

stockDictionary(Ticker).Volume = stockDictionary(Ticker).Volume + Volume

Else

Dim record As StockRecord

Set record = New StockRecord

record.Ticker = Ticker

record.OpenPrice = OpenPrice

record.ClosePrice = ClosePrice

record.Volume = Volume

record.OpenDate = ValueDate

record.CloseDate = ValueDate

stockDictionary.Add Ticker, record

End If

End If

Next

Next s

Dim maxStockRecord As StockRecord

Dim minStockRecord As StockRecord

Dim summarySheet As Worksheet

Dim summaryRowIndex As Integer

Set summarySheet = ActiveWorkbook.Worksheets("Summary")

summaryRowIndex = 2

For Each tkr In stockDictionary.Keys

Dim sr As StockRecord

Set sr = stockDictionary(tkr)

If maxStockRecord Is Nothing Then

Set maxStockRecord = sr

Else

If maxStockRecord.PercentChange < sr.PercentChange Then

Set maxStockRecord = sr

End If

End If

If minStockRecord Is Nothing Then

Set minStockRecord = sr

Else

If minStockRecord.PercentChange > sr.PercentChange Then

Set minStockRecord = sr

End If

End If

**Module**

summarySheet.Cells(summaryRowIndex, 1).Value = sr.Ticker

summarySheet.Cells(summaryRowIndex, 2).Value = sr.OpenPrice

summarySheet.Cells(summaryRowIndex, 3).Value = sr.ClosePrice

summarySheet.Cells(summaryRowIndex, 4).Value = sr.Volume

summarySheet.Cells(summaryRowIndex, 5).Value = sr.Change

summarySheet.Cells(summaryRowIndex, 6).Value = sr.PercentChange

summaryRowIndex = summaryRowIndex + 1

Next

summaryRowIndex = summaryRowIndex + 2

summarySheet.Cells(summaryRowIndex, 1).Value = "MAX"

summarySheet.Cells(summaryRowIndex, 2).Value = maxStockRecord.Ticker

summarySheet.Cells(summaryRowIndex, 3).Value = maxStockRecord.OpenPrice

summarySheet.Cells(summaryRowIndex, 4).Value = maxStockRecord.ClosePrice

summarySheet.Cells(summaryRowIndex, 5).Value = maxStockRecord.Volume

summarySheet.Cells(summaryRowIndex, 6).Value = maxStockRecord.Change

summarySheet.Cells(summaryRowIndex, 7).Value = maxStockRecord.PercentChange

' summarySheet.Cells(summaryRowIndex, 9).Value = maxStockRecord.OpenDate

' summarySheet.Cells(summaryRowIndex, 10).Value = maxStockRecord.CloseDate

summaryRowIndex = summaryRowIndex + 1

summarySheet.Cells(summaryRowIndex, 1).Value = "MIN"

summarySheet.Cells(summaryRowIndex, 2).Value = minStockRecord.Ticker

summarySheet.Cells(summaryRowIndex, 3).Value = minStockRecord.OpenPrice

summarySheet.Cells(summaryRowIndex, 4).Value = minStockRecord.ClosePrice

summarySheet.Cells(summaryRowIndex, 5).Value = minStockRecord.Volume

summarySheet.Cells(summaryRowIndex, 6).Value = minStockRecord.Change

summarySheet.Cells(summaryRowIndex, 7).Value = minStockRecord.PercentChange

' summarySheet.Cells(summaryRowIndex, 9).Value = maxStockRecord.OpenDate

' summarySheet.Cells(summaryRowIndex, 10).Value = maxStockRecord.CloseDate

End Sub