**Thea Crockett**

**Homework 2: VBA**

**Code**

Sub StockMarket()

' Loop through all sheets

For Each ws In Worksheets

'Labels/headers

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

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

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

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

' Set an initial value for holding the ticker

Dim ticker As String

' Set an initial value for holding the total volume

Dim Volume\_Total As Double

Volume\_Total = 0

' Set an initial value for holding the yearly change

Dim Yearly\_Change As Double

Yearly\_Change = 0

' Set an initial value for holding the beginning price

Dim Year\_Open As Double

Year\_Open = 0

' Set an initial value for holding the ending price

Dim Year\_Close As Double

Year\_Close = 0

' Keep track of the location for each ticker in the summary table

Dim Summary\_Table\_Row As Integer

Summary\_Table\_Row = 2

' Determine the last row

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

' Loop through all tickers

For i = 2 To LastRow

' Checks if it is still within the same ticker, if it is not...

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

' Set the Ticker

ticker = Cells(i, 1).Value

' Moves the ticker to the summary table

Cells(Summary\_Table\_Row, 9).Value = ticker

' Grabs the end of the year value

Year\_Close = Cells(i, 6).Value

'--------------------------------------------------------------------------------------------

' Calculates yearly change

'--------------------------------------------------------------------------------------------

Yearly\_Change = Year\_Close - Year\_Open

' Moves the yearly change to the summary table

Cells(Summary\_Table\_Row, 10).Value = Yearly\_Change

'--------------------------------------------------------------------------------------------

' Colors the cell green when yearly change is positive and red when negative

'--------------------------------------------------------------------------------------------

If Yearly\_Change >= 0 Then

Cells(Summary\_Table\_Row, 10).Interior.Color = vbGreen

Else

Cells(Summary\_Table\_Row, 10).Interior.Color = vbRed

End If

'--------------------------------------------------------------------------------------------

' Calculates the yearly change while checking for overflow when divisor is zero

'--------------------------------------------------------------------------------------------

If Year\_Open = 0 Then

Cells(Summary\_Table\_Row, 11).Value = Year\_Close

Else

Cells(Summary\_Table\_Row, 11).Value = (Year\_Close / Year\_Open) - 1

End If

Cells(Summary\_Table\_Row, 11).Style = "Percent"

' Adds the final volume to the total volume

'Volume\_Total = Cells(LastRow, 7) + Volume\_Total

' Moves the total volume to the summary table

Cells(Summary\_Table\_Row, 12).Value = Volume\_Total

' Adds one to the summary table

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

' Resets the value of total volume, yearly change,opening and closing values to zero

Volume\_Total = 0

Yearly\_Change = 0

Year\_Open = 0

Year\_Close = 0

' if the cell in the next row is the same ticker

Else

' Adds the current volume to the total volume

Volume\_Total = Volume\_Total + Cells(i + 1, 7).Value

' Checks if row before is not equal to the current ticker

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

'Grabs the opening value

Year\_Open = Cells(i, 3)

End If

End If

Next i

Next ws

End Sub