SCRIPT (HOMEWORK)

Sub Multiple\_year\_stock\_data ():

' Define variables

Dim ticker As String

Dim number\_tickers As Integer

Dim lastRowState As Long

Dim opening\_price As Double

Dim closing\_price As Double

Dim yearly\_change As Double

Dim percent\_change As Double

Dim total\_stock\_volume As Double

Dim greatest\_percent\_increase As Double

Dim greatest\_percent\_increase\_ticker As String

Dim greatest\_percent\_decrease As Double

Dim greatest\_percent\_decrease\_ticker As String

Dim greatest\_stock\_volume As Double

Dim greatest\_stock\_volume\_ticker As String

' Find the last row of actual worksheet

lastRowState = Cells (Rows.Count, "A"). End(xlUp). Row

' Add header columns for actual worksheet

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

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

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

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

' Initialize variables for actual worksheet

number\_tickers = 0

ticker = ""

yearly\_change = 0

opening\_price = 0

percent\_change = 0

total\_stock\_volume = 0

' loop through the list of tickers

For i = 2 To lastRowState

' the value of the ticker symbol we are currently calculating for

ticker = Cells (i, 1). Value

' opening price for the ticker

If opening\_price = 0 Then

opening\_price = Cells (i, 3). Value

End If

' Add up the total stock volume values for a ticker

total\_stock\_volume = total\_stock\_volume + Cells (i, 7). Value

' Run this if I get to a different ticker in the list

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

' Increment the number of tickers when I get to a different ticker in the list

number\_tickers = number\_tickers + 1

Cells (number\_tickers + 1, 9) = ticker

' the year closing price for ticker

closing\_price = Cells (i, 6)

' yearly change value

yearly\_change = closing\_price - opening\_price

' Add yearly change value to the appropriate cell in actual worksheet

Cells (number\_tickers + 1, 10). Value = yearly\_change

' If yearly change value is greater than 0, shade cell green

If yearly\_change > 0 Then

Cells (number\_tickers + 1, 10). Interior.ColorIndex = 4

' If yearly change value is less than 0, shade cell red

ElseIf yearly\_change < 0 Then

Cells (number\_tickers + 1, 10). Interior.ColorIndex = 3

' If yearly change value is 0, shade cell yellow

Else

Cells (number\_tickers + 1, 10). Interior.ColorIndex = 6

End If

' Calculate percent change value for ticker

If opening\_price = 0 Then

percent\_change = 0

Else

percent\_change = (yearly\_change / opening\_price)

End If

' Format the percent\_change value as a percent

Cells (number\_tickers + 1, 11). Value = Format (percent\_change, "Percent")

' Set opening price back to 0 when I get to a different ticker in the list

opening\_price = 0

' Add total stock volume value to the appropriate cell in actual worksheet

Cells (number\_tickers + 1, 12). Value = total\_stock\_volume

' Set total stock volume back to 0 when I get to a different ticker in the list

total\_stock\_volume = 0

End If

Next i

' Bonus section to display greatest percent increase, greatest percent decrease, and greatest total volume for each year

Range("O2"). Value = "Greatest % Increase"

Range("O3"). Value = "Greatest % Decrease"

Range("O4"). Value = "Greatest Total Volume"

Range("P1"). Value = "Ticker"

Range("Q1"). Value = "Value"

lastRowState = Cells (Rows.Count, "I"). End(xlUp). Row

' Initialize variables and set

greatest\_percent\_increase = Cells (2, 11). Value

greatest\_percent\_increase\_ticker = Cells (2, 9). Value

greatest\_percent\_decrease = Cells (2, 11). Value

greatest\_percent\_decrease\_ticker = Cells (2, 9). Value

greatest\_stock\_volume = Cells (2, 12). Value

greatest\_stock\_volume\_ticker = Cells (2, 9). Value

' loop through the list of tickers

For i = 2 To lastRowState

' Find the ticker with the greatest percent increase

If Cells (i, 11). Value > greatest\_percent\_increase Then

greatest\_percent\_increase = Cells (i, 11). Value

greatest\_percent\_increase\_ticker = Cells (i, 9). Value

End If

' Find the ticker with the greatest percent decrease

If Cells (i, 11). Value < greatest\_percent\_decrease Then

greatest\_percent\_decrease = Cells (i, 11). Value

greatest\_percent\_decrease\_ticker = Cells (i, 9). Value

End If

' Find the ticker with the greatest stock volume

If Cells (i, 12). Value > greatest\_stock\_volume Then

greatest\_stock\_volume = Cells (i, 12). Value

greatest\_stock\_volume\_ticker = Cells (i, 9). Value

End If

Next i

' values for greatest percent increase, decrease, and stock volume to each worksheet

Range("P2"). Value = Format (greatest\_percent\_increase\_ticker, "Percent")

Range("Q2"). Value = Format (greatest\_percent\_increase, "Percent")

Range("P3"). Value = Format (greatest\_percent\_decrease\_ticker, "Percent")

Range("Q3"). Value = Format (greatest\_percent\_decrease, "Percent")

Range("P4"). Value = greatest\_stock\_volume\_ticker

Range("Q4"). Value = greatest\_stock\_volume

End Sub