**VBA-Challenge - Module 1 Script**

'Combining all worksheets into one summary sheet

Sub SummarySheet()

' Add a sheet named "Combined Data"

Sheets.Add.Name = "Stock\_Data"

'move created sheet to be first sheet

Sheets("Stock\_Data").Move Before:=Sheets(1)

' Specify the location of the combined sheet

Set combined\_sheet = Worksheets("Stock\_Data")

' Loop through all sheets

For Each ws In Worksheets

' Find the last row of the combined sheet after each paste

' Add 1 to get first empty row

lastRow = combined\_sheet.Cells(Rows.Count, "A").End(xlUp).Row + 1

' Find the last row of each worksheet

' Subtract one to return the number of rows without header

lastRowticker = ws.Cells(Rows.Count, "A").End(xlUp).Row - 1

' Copy the contents of each stock sheet into the combined sheet

combined\_sheet.Range("A" & lastRow & ":G" & ((lastRowticker - 1) + lastRow)).Value = ws.Range("A2:G" & (lastRowticker + 1)).Value

Next ws

' Copy the headers from sheet 1

combined\_sheet.Range("A1:G1").Value = Sheets(2).Range("A1:G1").Value

' Autofit to display data

combined\_sheet.Columns("A:G").AutoFit

End Sub

**VBA-Challenge - Module 2 Script**

'Analyze one worksheet

Sub ProcessOneSheet()

Dim ws As Worksheet

Set ws = ThisWorkbook.Sheets("Stock\_Data")

'Finding the last row of the worksheet

Dim lastRow As Long

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

Dim i As Long

Dim tickername As String

Dim totalvolume As Double

totalvolume = 0

Dim openprice As Double

Dim closeprice As Double

Dim yearlychange As Double

Dim percentchange As Double

'adding portion for collecting summary data

Dim summaryrow As Long

summaryrow = 2

Dim summaryticker As String

For i = 2 To lastRow

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

tickername = ws.Cells(i, 1).Value

'to write to the summary sections

If i > 2 Then

ws.Cells(summaryrow, 10).Value = summaryticker

ws.Cells(summaryrow, 11).Value = openprice

ws.Cells(summaryrow, 12).Value = closeprice

ws.Cells(summaryrow, 13).Value = yearlychange

ws.Cells(summaryrow, 14).Value = percentchange

ws.Cells(summaryrow, 15).Value = totalvolume

summaryrow = summaryrow + 1

End If

' resetting for new stock summary information

totalvolume = 0

openprice = ws.Cells(i, 3)

closeprice = 0

yearlychange = 0

percentchange = 0

summaryticker = tickername

End If

totalvolume = totalvolume + ws.Cells(i, 7).Value

closeprice = ws.Cells(i, 6).Value

yearlychange = closeprice - openprice

If openprice <> 0 Then

percentchange = yearlychange / openprice \* 100

Else

percentchange = 0

End If

Next i

End Sub

**VBA-Challenge - Module 3 Script**

Sub Worksonworkbook()

'Change to work on all worksheets in workbook

For Each ws In Worksheets

Dim WorkSheetName As String

'Finding the last row of the worksheet

'Isolating the worksheet to test if script will work

'Set ws = ThisWorkbook.Sheets("A")

'Finding the last row of the worksheet

Dim lastRow As Long

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

Dim i As Long

Dim tickername As String

Dim totalvolume As Double

totalvolume = 0

Dim openprice As Double

Dim closeprice As Double

Dim yearlychange As Double

Dim percentchange As Double

'adding portion for collecting summary data

Dim summaryrow As Long

summaryrow = 2

Dim summaryticker As String

For i = 2 To lastRow

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

tickername = ws.Cells(i, 1).Value

'to write to the summary sections

If i > 2 Then

ws.Cells(summaryrow, 10).Value = summaryticker

ws.Cells(summaryrow, 11).Value = openprice

ws.Cells(summaryrow, 12).Value = closeprice

ws.Cells(summaryrow, 13).Value = yearlychange

ws.Cells(summaryrow, 14).Value = percentchange

ws.Cells(summaryrow, 15).Value = totalvolume

summaryrow = summaryrow + 1

End If

' resetting for new stock summary information

totalvolume = 0

openprice = ws.Cells(i, 3)

closeprice = 0

yearlychange = 0

percentchange = 0

summaryticker = tickername

End If

totalvolume = totalvolume + ws.Cells(i, 7).Value

closeprice = ws.Cells(i, 6).Value

yearlychange = closeprice - openprice

If openprice <> 0 Then

percentchange = yearlychange / openprice \* 100

Else

percentchange = 0

End If

Next i

Next ws

End Sub