**Unit 2 | Assignment - The VBA of Wall Street**

**VBA Scripts**

Sub Multi\_YearStock()

Dim ws As Worksheet

Dim endrow As Long

Dim index As Long

Dim index1 As Long

Dim capture\_start As Boolean

Dim startvalue As Double

Dim endvalue As Double

Dim endRowValue As Long

Dim IncreaseVal As Double

Dim DecreaseVal As Double

Dim GreatestVal As Double

'Go through each sheet in the workbook.

For Each ws In ThisWorkbook.Sheets

ws.Activate

'Find how many rows are in first column.

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

volume = 0

index = 2

index1 = 2

IncreaseVal = 0

DecreaseVal = 0

GreatestVal = 0

endRowValue = 0

'setting a flag to capture the first open value

capture\_start = True

'loop for reading all the rows

For index = 2 To endrow

'compare the next row with the current row

If Cells(index + 1, 1) <> Cells(index, 1) Then

Cells(index1, 9) = Cells(index, 1)

Cells(index1, 12) = volume + Cells(index, 7)

'If there is only one record for a ticker, i still want to capture that using the flag

If capture\_start = True Then

startvalue = Cells(index, 3)

End If

capture\_start = True

'Assign the values and calculate the percentage

endvalue = Cells(index, 6)

Cells(index1, 10) = endvalue - startvalue

If startvalue <> 0 Then

Cells(index1, 11) = (endvalue / startvalue) - 1

Else

Cells(index1, 11) = 0

End If

Cells(index1, 11).NumberFormat = "0.00%"

'using conditional formating for color the column

If Cells(index1, 10) >= 0 Then

Cells(index1, 10).Interior.ColorIndex = 4

ElseIf Cells(index1, 10) < 0 Then

Cells(index1, 10).Interior.ColorIndex = 3

End If

volume = 0

index1 = index1 + 1

Else

'Assign the starting value and accumulate the volume

If capture\_start = True Then

startvalue = Cells(index, 3)

End If

capture\_start = False

volume = volume + Cells(index, 7)

End If

Next index

' Find the stock with the "Greatest % increase", "Greatest % Decrease" and "Greatest total volume".

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

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

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

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

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

'Find the last row for the summary

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

Cells(2, Column + 17).NumberFormat = "0.00%"

Cells(3, Column + 17).NumberFormat = "0.00%"

For index2 = 2 To endRowValue

If Cells(index2, 11).Value > IncreaseVal Then

IncreaseVal = Cells(index2, 11)

Cells(2, 17).Value = IncreaseVal

Cells(2, 16).Value = Cells(index2, 9)

End If

If Cells(index2, 11) < DecreaseVal Then

DecreaseVal = Cells(index2, 11)

Cells(3, 17).Value = DecreaseVal

Cells(3, 16).Value = Cells(index2, 9)

End If

If Cells(index2, 12) > GreatestVal Then

GreatestVal = Cells(index2, 12)

Cells(4, 17) = GreatestVal

Cells(4, 16) = Cells(index2, 9)

End If

Next index2

Next ws

End Sub