Sub AllStocksAnalysisRefactored()

Dim startTime As Single

Dim endTime As Single

yearValue = InputBox("What year would you like to run the analysis on?")

startTime = Timer

'Format the output sheet on All Stocks Analysis worksheet

Worksheets("All Stocks Analysis").Activate

Range("A1").Value = "All Stocks (" + yearValue + ")"

'Create a header row

Cells(3, 1).Value = "Ticker"

Cells(3, 2).Value = "Total Daily Volume"

Cells(3, 3).Value = "Return"

'Initialize array of all tickers

Dim tickers(12) As String

tickers(0) = "AY"

tickers(1) = "CSIQ"

tickers(2) = "DQ"

tickers(3) = "ENPH"

tickers(4) = "FSLR"

tickers(5) = "HASI"

tickers(6) = "JKS"

tickers(7) = "RUN"

tickers(8) = "SEDG"

tickers(9) = "SPWR"

tickers(10) = "TERP"

tickers(11) = "VSLR"

'Activate data worksheet

Worksheets(yearValue).Activate

'Get the number of rows to loop over

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

'1a) Create a ticker Index and set to 0

Dim tickerIndex As Integer

tickerIndex = 0

'1b) Create three output arrays

Dim tickersVolume(12) As Long

Dim startingPrices(12) As Single

Dim endingPrices(12) As Single

''2a) Create a for loop to initialize the tickerVolumes to zero.

'the loop will increase the ticker index and set all volumes in the array to 0

For i = 0 To 11

tickersVolume(tickerIndex + i) = 0

Next i

''2b) Loop over all the rows in the spreadsheet.

For i = 2 To RowCount

'3a) Increase volume for current ticker

If Cells(i, 1).Value = tickers(tickerIndex) Then

tickersVolume(tickerIndex) = tickersVolume(tickerIndex) + Cells(i, 8).Value

End If

'3b) Check if the current row is the first row with the selected tickerIndex.

'if it is the first row, set the value to the starting price

'If Then

If Cells(i, 1).Value = tickers(tickerIndex) And Cells(i - 1, 1).Value <> tickers(tickerIndex) Then

startingPrices(tickerIndex) = Cells(i, 6).Value

End If

'End If

'3c) check if the current row is the last row with the selected ticker

'if it is the last row, set the value to the ending price

'If Then

If Cells(i, 1).Value = tickers(tickerIndex) And Cells(i + 1, 1).Value <> tickers(tickerIndex) Then

endingPrices(tickerIndex) = Cells(i, 6).Value

End If

'3d Increase the tickerIndex

'the ticker index will increase by 1 for the same criteria as the ending price, so it it is the last row of the current ticker

If Cells(i, 1).Value = tickers(tickerIndex) And Cells(i + 1, 1).Value <> tickers(tickerIndex) Then

tickerIndex = tickerIndex + 1

End If

'End If

Next i

'4) Loop through your arrays to output the Ticker, Total Daily Volume, and Return.

'the for loop will have i loop through the arrays andplace the values in the cells stated below

'the row of the cell we are placing the value in will also increase by i increase

For i = 0 To 11

Worksheets("All Stocks Analysis").Activate

Cells(4 + i, 1).Value = tickers(i)

Cells(4 + i, 2).Value = tickersVolume(i)

Cells(4 + i, 3).Value = endingPrices(i) / startingPrices(i) - 1

Next i

'Formatting

Worksheets("All Stocks Analysis").Activate

Range("A3:C3").Font.FontStyle = "Bold"

Range("A3:C3").Borders(xlEdgeBottom).LineStyle = xlContinuous

Range("B4:B15").NumberFormat = "#,##0"

Range("C4:C15").NumberFormat = "0.0%"

Columns("B").AutoFit

dataRowStart = 4

dataRowEnd = 15

For i = dataRowStart To dataRowEnd

If Cells(i, 3) > 0 Then

Cells(i, 3).Interior.Color = vbGreen

Else

Cells(i, 3).Interior.Color = vbRed

End If

Next i

endTime = Timer

MsgBox "This code ran in " & (endTime - startTime) & " seconds for the year " & (yearValue)

End Sub