Sub MacroCheck()

Dim testMessage As String

testMessage = "Hello World!"

MsgBox (testMessage)

End Sub

Sub DQAnalysis()

Worksheets("DQ Analysis").Activate

Range("A1").Value = "DAQO (Ticker: DQ)"

'Create a header row

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

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

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

Worksheets("2018").Activate

rowStart = 2

'DELETE: rowEnd = 3013

'rowEnd code taken from http://stackoverflow.com/questions/1808872

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

totalVolume = 0

For i = rowStart To rowEnd

'increase totalVolume

If Cells(i, 1).Value = "DQ" Then

totalVolume = totalVolume + Cells(i, 8).Value

End If

Next i

Worksheets("DQ Analysis").Activate

Cells(4, 1).Value = 2018

Cells(4, 2).Value = totalVolume

MsgBox (totalVolume)

End Sub

Sub AllStocksAnalysis()

Worksheets("All Stocks Analysis").Activate

Range("A1").Value = "All Stocks (2018)"

'create header row

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

Cells(1, 2).Value = "Total Daily Volume"

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

'create index

Dim tickerIndex As Integer

tickerIndex = (i)

Dim ticker(11) As String

ticker(0) = "AY"

ticker(1) = "CSIQ"

ticker(2) = "DQ"

ticker(3) = "ENPH"

ticker(4) = "FSLR"

ticker(5) = "HASI"

ticker(6) = "JKS"

ticker(7) = "RUN"

ticker(8) = "SEDG"

ticker(9) = "SPWR"

ticker(10) = "TERP"

ticker(11) = "VSLR"

'number of rows to loop

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

'three arrays

Dim tickerVolumes(12) As Long

Dim tickerStartingPrices(12) As Single

Dim tickerEndingPrices(12) As Single

For i = 0 To 12

'create value

Cells(2, 1).Value = 1

'a line of code here will run 10 times

If Cells(2, 1).Value = "All Stocks Analysis" Then

'increase totalVolume by the value in the current row

TotalVolume = TotalVolume + Cells(2, 1).Value

End If

Next i

For j = 0 To 12

If Cells(2 - 1, 1).Value <> "All Stocks Analysis" And Cells(2, 1).Value = "All Stocks Analysis" Then

startingPrice = Cells(i, 6).Value

End If

Next j

For k = 0 To 12

If Cells(i + 1, 1).Value <> "All Stocks Analysis" And Cells(i, 1).Value = "All Stocks Analysis" Then

endingPrice = Cells(i, 6).Value

End If

Next k

End Sub

Sub AllStocksAnalysis()

'1 Format the output sheet on the "All Stocks Analysis" worksheet.

Worksheets("All Stocks Analysis").Activate

Range("A1").Value = "All Stock (2018)"

'create header row

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

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

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

'2 Initialize an array of all tickers.

Dim ticker(12) As String

ticker(0) = "AY"

ticker(1) = "CSIQ"

ticker(2) = "DQ"

ticker(3) = "ENPH"

ticker(4) = "FSLR"

ticker(5) = "HASI"

ticker(6) = "JKS"

ticker(7) = "RUN"

ticker(8) = "SEDG"

ticker(9) = "SPWR"

ticker(10) = "TERP"

ticker(11) = "VSLR"

'3 Prepare for the analysis of tickers.

'3a Initialize variables for the starting price and ending price.

Dim tickerStartingPrices As Single

Dim tickerEndingPrices As Single

'3b Activate the data worksheet.

Worksheet("2018").Activate

'3c Find the number of rows to loop over.

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

'4 Loop through the tickers.

For i = 0 To 11

ticker = tickers(i)

totalVolume = 0

'5 Loop through rows in the data.

'5a Find the total volume for the current ticker.

Workshees("2018").Activate

For j = 2 To RowCount

'5b Find the starting price for the current ticker.

If Cell(j, 1).Value = ticker Then

totalVolume = totalVolume + Cells(j, 8).Value

End If

'5cFind the ending price for the current ticker.

If Cells(j - 1, 1).Value <> ticker And Cells(j, 1).Value = ticker Then

starting Price = Cells(j, 6).Value

End If

Next j

'6 Output the data for the current ticker.

Worksheet("All Stocks Ananlysis").Activate

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

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

Cells(4 + i, 3).Value = endingPrice / statingPric - 1

Next i

End Sub

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Sub MacroCheck()

Dim testMessage As String

testMessage = "Hello World!"

MsgBox (testMessage)

End Sub

Sub DQAnalysis()

Worksheets("DQ Analysis").Activate

Range("A1").Value = "DAQO (Ticker: DQ)"

'Create a header row

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

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

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

Worksheets("2018").Activate

'set initial volume to zero

totalVolume = 0

Dim startngPrice As Double

Dim endingPrice As Double

'Establish the number of rows to loop over

rowStart = 2

'DELETE: rowEnd = 3013

'rowEnd code taken from http://stackoverflow.com/questions/1808872

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

'loop over all rows

For i = rowStart To rowEnd

If Cells(i, 1).Value = "DQ" Then

'increase totalVolume by the value in the current row

totalVolume = totalVolume + Cells(i, 8).Value

End If

If Cells(i - 1, 1).Value <> "DQ" And Cells(i, 1).Value = "DQ" Then

startingPrice = Cells(i, 6).Value

End If

If Cells(i + 1, 1).Value <> "DQ" And Cells(i, 1).Value = "DQ" Then

endingPrice = Cells(i, 6).Value

End If

Next i

Worksheets("DQ Analysis").Activate

Cells(4, 1).Value = "2018"

Cells(4, 2).Value = "TotalVolume"

Cells(4, 3).Value = (endingPrice / startingPrice) - 1

End Sub

Sub AllStocksAnalysis()

'1 Format the output sheet on the "All Stocks Analysis" worksheet.

Worksheets("All Stocks Analysis").Activate

Range("A1").Value = "All Stock (2018)"

'create header row

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

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

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

'2 Initialize an 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"

'3 Prepare for the analysis of tickers.

'3a Initialize variables for the starting price and ending price.

Dim startingPrice As Double

Dim endingPrice As Double

'3b Activate the data worksheet.

Worksheets("2018").Activate

'3c Find the number of rows to loop over.

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

'4 Loop through the tickers.

For i = 0 To 11

ticker = tickers(i)

totalVolume = 0

'5 Loop through rows in the data.

Worksheets("2018").Activate

For j = 2 To RowCount

'5a Find the total volume for the current ticker.

If Cells(j, 1).Value = ticker Then

totalVolume = totalVolume + Cells(j, 8).Value

End If

'5b Find the starting price for the current ticker.

If Cells(j - 1, 1).Value <> ticker And Cells(j, 1).Value = ticker Then

startingPrice = Cells(j, 6).Value

End If

'5cFind the ending price for the current ticker.

If Cells(j + 1, 1).Value <> ticker And Cells(j, 1).Value = ticker Then

endingPrice = Cells(j, 6).Value

End If

Next j

'6 Output the data for the current ticker.

Worksheets("All Stocks Analysis").Activate

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

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

Cells(4 + i, 3).Value = endingPrice / startingPrice - 1

Next i

'Formatting

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

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

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

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

Columns("B").AutoFit

If Cells(4, 3) > 0 Then

'Color the cell Green

Cells(4, 3).Interior.Color = vbGreen

ElseIf Cells(4, 3) < 0 Then

'Color the cell Red

Cells(4, 3).Interior.Color = vbRed

End If

End Sub

1-16-2021

Sub MacroCheck()

Dim testMessage As String

testMessage = "Hello World!"

MsgBox (testMessage)

End Sub

Sub DQAnalysis()

Worksheets("DQ Analysis").Activate

Range("A1").Value = "DAQO (Ticker: DQ)"

'Create a header row

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

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

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

Worksheets("2018").Activate

'set initial volume to zero

totalVolume = 0

Dim startngPrice As Double

Dim endingPrice As Double

'Establish the number of rows to loop over

rowStart = 2

'DELETE: rowEnd = 3013

'rowEnd code taken from http://stackoverflow.com/questions/1808872

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

'loop over all rows

For i = rowStart To rowEnd

If Cells(i, 1).Value = "DQ" Then

'increase totalVolume by the value in the current row

totalVolume = totalVolume + Cells(i, 8).Value

End If

If Cells(i - 1, 1).Value <> "DQ" And Cells(i, 1).Value = "DQ" Then

startingPrice = Cells(i, 6).Value

End If

If Cells(i + 1, 1).Value <> "DQ" And Cells(i, 1).Value = "DQ" Then

endingPrice = Cells(i, 6).Value

End If

Next i

Worksheets("DQ Analysis").Activate

Cells(4, 1).Value = "2018"

Cells(4, 2).Value = "TotalVolume"

Cells(4, 3).Value = (endingPrice / startingPrice) - 1

End Sub

Sub AllStocksAnalysis()

'1 Format the output sheet on the "All Stocks Analysis" worksheet.

Worksheets("All Stocks Analysis").Activate

Range("A1").Value = "All Stock (2018)"

'create header row

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

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

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

'2 Initialize an 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"

'3 Prepare for the analysis of tickers.

'3a Initialize variables for the starting price and ending price.

Dim startingPrice As Double

Dim endingPrice As Double

yearValue = InputBox(2019)

startTime = Timer

'3b Activate the data worksheet.

Worksheets("2018").Activate

'3c Find the number of rows to loop over.

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

'4 Loop through the tickers.

For i = 0 To 11

ticker = tickers(i)

totalVolume = 0

'5 Loop through rows in the data.

Worksheets("2018").Activate

For j = 2 To RowCount

'5a Find the total volume for the current ticker.

If Cells(j, 1).Value = ticker Then

totalVolume = totalVolume + Cells(j, 8).Value

End If

'5b Find the starting price for the current ticker.

If Cells(j - 1, 1).Value <> ticker And Cells(j, 1).Value = ticker Then

startingPrice = Cells(j, 6).Value

End If

'5cFind the ending price for the current ticker.

If Cells(j + 1, 1).Value <> ticker And Cells(j, 1).Value = ticker Then

endingPrice = Cells(j, 6).Value

End If

Next j

'6 Output the data for the current ticker.

Worksheets("All Stocks Analysis").Activate

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

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

Cells(4 + i, 3).Value = endingPrice / startingPrice - 1

Next i

'Formatting

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

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

'Color the cell Green

Cells(4, 3).Interior.Color = vbGreen

ElseIf Cells(i, 3) < 0 Then

'Color the cell Red

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

Else

'Clear the cell color

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

End If

Next i

End Sub

Sub ClearWorksheet()

Cells.Clear

End Sub

Sub yearValueAnalysis()

Worksheets("All Stocks Analysis").Activate

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

startTime = Timer

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

'create header row

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

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

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

'2 Initialize an 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"

'3 Prepare for the analysis of tickers.

'3a Initialize variables for the starting price and ending price.

Dim startingPrice As Double

Dim endingPrice As Double

'3b Activate the data worksheet.

Worksheets("All Stocks Analysis").Activate

'3c Find the number of rows to loop over.

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

'4 Loop through the tickers.

For i = 0 To 11

ticker = tickers(i)

totalVolume = 0

'5 Loop through rows in the data.

Worksheets("2018").Activate

For j = 2 To RowCount

'5a Find the total volume for the current ticker.

If Cells(j, 1).Value = ticker Then

totalVolume = totalVolume + Cells(j, 8).Value

End If

'5b Find the starting price for the current ticker.

If Cells(j - 1, 1).Value <> ticker And Cells(j, 1).Value = ticker Then

startingPrice = Cells(j, 6).Value

End If

'5cFind the ending price for the current ticker.

If Cells(j + 1, 1).Value <> ticker And Cells(j, 1).Value = ticker Then

endingPrice = Cells(j, 6).Value

End If

Next j

'6 Output the data for the current ticker.

Worksheets("2018").Activate

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

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

Cells(4 + i, 3).Value = endingPrice / startingPrice - 1

Next i

'Formatting

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

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

'Color the cell Green

Cells(4, 3).Interior.Color = vbGreen

ElseIf Cells(i, 3) < 0 Then

'Color the cell Red

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

Else

'Clear the cell color

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

End If

Next i

endTime = Timer

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

End Sub

Sub AllStocksAnalysisRefactored()

Worksheets("All Stocks Analysis Refactored").Activate

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 Anaylsis 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 date 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

For i = 0 To 11

ticker = tickers(i)

'1b) Create three output arrays

Dim tickerStartingPrices As Long

Dim tickerEndingPrices As Single

Dim tickerVolume As Single

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

For i = 2 To RowCount

Worksheets("2018").Activate

tickerVolumes = 0

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

For j = 2 To RowCount

'3a) Increase volume for current ticker

If Cells(j, 1).Value = ticker Then

totalVolume = totalVolume + Cells(j, 8).Value

End If

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

'

If Cells(j - 1, 1).Value <> ticker And Cells(j, 1).Value = ticker Then

startingPrice = Cells(j, 6).Value

End If

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

If Cells(j + 1, 1).Value <> ticker And Cells(j, 1).Value = ticker Then

endingPrice = Cells(j, 6).Value

End If

Next j

'If the next row's ticker doesn't match, increase the tickerIndex.

'If Then

'3d Increase the tickerIndex.

'End If

Next i

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

For i = 0 To 11

Worksheets("All Stocks Analysis").Activate

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

dateRowEnd = 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