**STOCK\_MARKET ANALYSIS CODING ::**

**MODULE 1\_ANALYSIS TOGET THE TICKER SYMBOL**

Sub StockMarket()

'worksheet loop

Dim ws As Worksheet

For Each ws In Worksheets

ws.Activate

'create the variables

Dim i As Long

Dim ticker As String

Dim row As Integer

'set the row value

row = 2

'find the last row of the table

last\_row = ws.Cells(Rows.Count, 1).End(xlUp).row

'column creation

Cells(1, 9).Value = "Ticker"

Cells(1, 10).Value = "Quarterly Change"

Cells(1, 11).Value = "Percent Change"

Cells(1, 12).Value = "Total Stock Volume"

'loop through ticker

For i = 2 To last\_row

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

ticker = Cells(i, 1).Value

' add ticker into table

Range("I" & row).Value = ticker

'reset the value

row = row + 1

End If

Next i

Next

End Sub

**MODULE 2\_analysis for quarterly change**

Sub StockMarket\_Quart()

'worksheet loop

Dim ws As Worksheet

For Each ws In Worksheets

ws.Activate

'create thevariables

Dim i As Long

Dim j As Long

Dim quarterly\_change As Double

Dim opening\_price As Double

Dim closing\_price As Double

Dim row As Integer

' set the row value

row = 2

'find th elast row

last\_row = Cells(Rows.Count, 1).End(xlUp).row

'initial the opening price

opening\_price = Cells(2, 3).Value

'loop through the ticker

For i = 2 To last\_row

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

'set the close price

closing\_price = Cells(i, 6).Value

'calculate the quarterly change

quarterly\_change = (closing\_price - opening\_price)

Range("j" & row).Value = quarterly\_change

'loop to next row

row = row + 1

opening\_price = Cells(i + 1, 3).Value

End If

Next i

Next

End Sub

**MODULE 3\_' set the colors**

Sub StockMarket\_colors()

'worksheet loop

Dim ws As Worksheet

For Each ws In Worksheets

ws.Activate

last\_row = Cells(Rows.Count, 9).End(xlUp).row

'iniate the loop

For i = 2 To last\_row

If Cells(i, 10).Value > 0 Then

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

Else

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

End If

Next i

Next

End Sub

**MODULE 4\_Analysis for Percent Change**

Sub StockMarket\_Percent()

'worksheet loop

Dim ws As Worksheet

For Each ws In Worksheets

ws.Activate

'variables creation

Dim opening\_price As Double

Dim closing\_price As Double

Dim percent\_change As Double

Dim row As Integer

'initial th erow value

row = 2

'find the last row

last\_row = Cells(Rows.Count, 1).End(xlUp).row

' set the open price

opening\_price = Cells(2, 3).Value

'iniate the loop

For i = 2 To last\_row

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

closing\_price = Cells(i, 6).Value

If opening\_price <> 0 Then

percent\_change = (closing\_price - opening\_price) / opening\_price

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

End If

Range("k" & row).Value = percent\_change

'loop to next row

row = row + 1

opening\_price = Cells(i + 1, 3)

End If

Next i

Next

End Sub

**MODULE 5\_' Analysis for total stock volume**

Sub StcokMarket\_Volume()

'worksheet loop

Dim ws As Worksheet

For Each ws In Worksheets

ws.Activate

'create the variables

Dim i As Long

Dim volume As Double

Dim opening\_price As Double

Dim closing\_price As Double

Dim row As Integer

'set the row and volume

row = 2

volume = 0

'find th elast row

last\_row = Cells(Rows.Count, 1).End(xlUp).row

' start the loop

For i = 2 To last\_row

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

volume = volume + Cells(i, 7).Value

Range("L" & row).Value = volume

closing\_price = Cells(i, 6).Value

' loop to next row

row = row + 1

volume = 0

opening\_price = Cells(i + 1, 3)

Else

volume = volume + Cells(i, 7).Value

End If

Next i

Next

End Sub

**MODULE 6\_analysis forBonu: greatest % increase, decrease andgreatest total volume**

Sub StockMarket\_Bonus()

'worksheet loop

Dim ws As Worksheet

For Each ws In Worksheets

ws.Activate

' create the variables

Dim i As Long

Dim max\_percent\_change As Double

Dim min\_percent\_change As Double

Dim max\_volume As Double

Dim last\_row As Long

'find the last row

last\_row = Cells(Rows.Count, 11).End(xlUp).row

'column creation

Cells(2, 15).Value = "Greates % Increase"

Cells(3, 15).Value = "Greatest % Decrease"

Cells(4, 15).Value = " Greatest Total volume"

Cells(1, 16).Value = "Ticker"

Cells(1, 17).Value = "value"

max\_percent\_change = Application.WorksheetFunction.max(Range("K2:K" & last\_row))

min\_percent\_change = Application.WorksheetFunction.Min(Range("K2:K" & last\_row))

max\_volume = Application.WorksheetFunction.max(Range("L2:L" & last\_row))

'initial the loop

For i = 2 To last\_row

If Cells(i, 11).Value = max\_percent\_change Then

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

Cells(2, 17).Value = Cells(i, 11).Value

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

ElseIf Cells(i, 11).Value = min\_percent\_change Then

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

Cells(3, 17).Value = Cells(i, 11).Value

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

ElseIf Cells(i, 12).Value = max\_volume Then

Cells(4, 16).Value = Cells(i, 9).Value

Cells(4, 17) = Cells(i, 12).Value

End If

Next i

Next

End Sub

REFERENCES::

STACK\_OVERFLOW

WEEK\_2\_CLASS\_ACTIVTIES

<https://www.tutorialspoint.com/vba/index.htm>

CHATGPT