

**This analyzer uses the nsepython and nse libraries to get data on the prices of the stocks and their options and analyze them accordingly**

**Kindly run the “option analyzer.py” file to get the results**

**File = sharelist.txt**

- The sharelist file contains list of all stocks that are to be looked by the analyzer.
- Please insert the shares row wise with each row containing share name and code which are separated by a comma (',')
- Please ensure that the share name is the first term of the row and the code is in the second place.

**File = config.txt**

- the config file should contain three values :-
  1. current month variable :-
    - If set to 0, data of the current month will be extracted
    - If set to 1, data of the next month will be extracted
  2. how\_far variable:-
    - calculating the far away options prices
  3. margin variable:-
    - used in calculating IRR

**NOTE**

- Please ensure that all the three variables are written as:-  
Variable name = variable values"
- The order of the variables should be
  - 1) Current Month
  - 2) how far
  - 3) Margin
- Please ensure that all three variables are having integer values and the following conditions are satisfied
  - a. \*\*Current month is either 0 or 1
  - b. \*\*how far value is between 0 and 100
  - c. \*\*margin value is between 0 and 100
- If you want to add any comments in the config file please start the comment with a hashtag ('#')

### **File - Holidays.xlsx**

- Contains the list of holidays for the ongoing year
- Please do not change the values in the file and if you want to add any holiday to it do it in the same pattern as the previous one

### **Before Running the code**

- Ensure that all the files mentioned above are in the same folder/directory as the analyzer file before you run the code
- If running the code on **Last Thursday**, days\_left is set equal to 1 instead of 0 to avoid calculation errors
- If you have run the code before and you are changing the number of shares or the ordering of the shares in the share list file please ensure you **delete** the 3-month high low excel file and ouput.xlsx and errors.log file before running the code
- Do not remove the hashtag from any comment in the code

## **Files Generated**

### **File - 3month timestamp excel file**

>Contains the 3 month high and low prices of all the shares

### **File - Output.xlsx**

>Contains all the raw data of the shares

### **File - Output with timestamp excel file**

>Contains all the final data with all the color-coding

### **File - Errors with timestamp.log**

>Contains all the issues/errors faced while running the analyzer

## Color Codings

- **Prices columns (B and C)**

Colors are based on the percentage change in price in the following way

Percentage Change(COLOURS): 1-2% ( BLUISH GREEN); 2-4% (LIGHT GREEN);  
> 4% (GREEN);

-1 TO -2% (LIGHT RED); -2 TO -4% (RED); > -4% (DARK RED)

-0.99 TO +0.99 NO COLOUR

- **RATIO Column:**

If ratio > 1.20 the color is green

If ratio < 0.80 the color is red

- **IRRPA (COLUMN K):**

If value > 200 (GREEN)

If 150<value<200 (YELLOW)

- **Low side and high side columns (COLUMNS N AND O):**

If Value> 9 (GREEN)

If 6<Value<9 (YELLOW)

- **F SELLPE of and F SELL PE @ (COLUMNS R AND S):**

If data not found:- LIGHT BROWN

If turns=1:- NO COLOR

If turns =2 :- ORANGISH RED

If turns = 3 :- ORANGISH RED

If turns = 4 :- RED

- **F SELLCE of and F SELL CE @ (COLUMNS V AND W):**

If data not found :- LIGHT BROWN

If turns=1 :- NO COLOR

If turns =2 :- ORANGISH RED

If turns = 3 :- ORANGISH RED

If turns = 4 :- RED

- **F IRR PA AND F IRR PA1 (COLUMNS U AND Y):**

> -IF VALUE > or = 48%,( GREEN)

> -IF VALUE > OR = 36% BUT LESS THAN 48%, LIGHT GREEN

> -IF VALUE > OR = 24% BUT < 36%, YELLOW

> -IF VALUE < 24%, NO COLOUR REQD