Step-by-step user guide - Stock Analysis program

Step 1:

Open stock_analysis.py and run the program. A console is going to open that looks like this:

Stock Analysis			_	×
Stocks and Tim	e Frame			
Stocks (Key, Key,)		Startdate (dd/mm/yyyy)		
	Set Random	Enddate (dd/mm/yyyy)		
Stock Analysis		Output		
Analyse Stocks		Most Volume:		
		Highest Return:		
		Highest Daily Volatility:		
Stock Visualisa	tion			
Stock Prices	Returns	Volatility		
Additional Infor	mation			
Yahoo Website	Stock Websites			

Step 2:

Add all the different stocks you want to analyse in the **input box 1** and type in the start and end date for the time frame you want to cover in the **input boxes 2 and 3.**

Stocks and Time l	Frame		
Stocks (Key, Key,)	1	Startdate (dd/mm/yyyy)	2
4	Set Random	Enddate (dd/mm/yyyy)	3

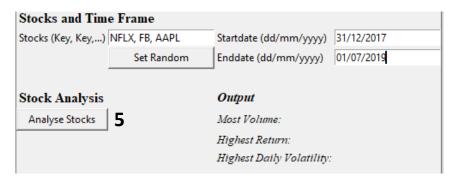
For **input box 1** – make sure to type the stocks with the right keys. For example, instead of writing Netflix you need to write NFLX in order for the program to work. You can look up the keys for each stock on Yahoo Finance. Also, if you want to add more than one stock, you can separate them with a comma like this: NFLX,FB,AAPL

For the **input boxes 2 and 3** – make sure to type the start and end date in the right order. The right order is dd/mm/yyyy. An example would be 31/12/2017 as start date and 01/07/2019 as end date.

If you just want to quickly try out the program, you can also click on the 'Set Random' (4) button. This will automatically fill out all three input boxes.

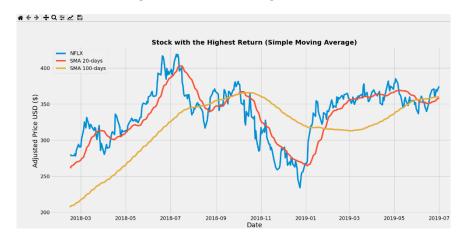
Step 3:

After you typed in all the stocks you want to analyse and also the time frame you want to cover, you can click on the button 'Analyse Stocks' (5).

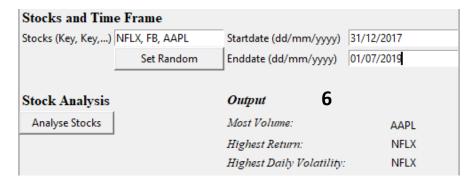


This will do two things:

1. Firstly, it will open a graph which visualizes the stock with the highest return and also its 20-days/100-days simple moving average. In this example, out of Netflix, Facebook and Apple the Netflix stock has the highest return over the given time frame.



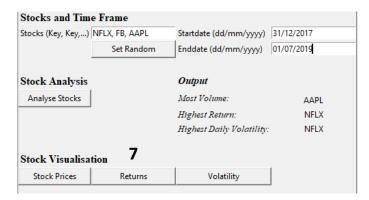
2. Secondly, it will automatically analyse all the stocks which you typed in the input box. This will show you the stock with the most volume, the stock with the highest return and the stock with the highest daily volatility. You can see this in the console in the 'Output' (6) section after you close the previous opened graph:



In our example the Apple stock has the most volume and the Netflix stock has the highest return as well as the highest daily volatility in the given time frame.

Step 4:

If you want to see the differences in volume, return and daily volatility of the analysed stocks in detail, you can do this with the buttons in the next section called 'Stock Visualisation' (7).



The button 'Stock Prices' opens the following graph where you will find the stock prices of the stocks over the analysed time frame:

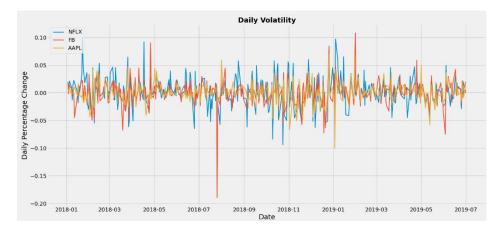


The button 'Return' opens the following graph where you will find the returns of the stocks over the analysed time frame:

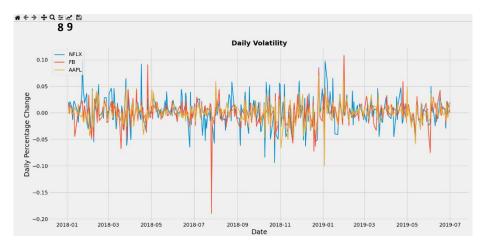


Notes: In this graph, all stocks start on '1.0' and the percental changes are displayed. This makes the comparison easier.

The button 'Volatility' opens the following graph where you will find the daily volatility of each stock over the analysed time frame:



If you want to configure (8) or edit (9) any of the graphs, you can simply do this by clicking the buttons on the top left corner, shown on the following picture:



Step 5:

Lastly, if you want additional information of the stocks, you can open all their Yahoo Finance websites by simply clicking on the button 'Stock Websites' (10) in the 'Additional Information' section. If you only want to open the main Yahoo Finance website, you can do this by clicking on the 'Yahoo Website' (11) button:

