**Project: Analysis of all NSE stocks to get the live data of all the listed firms and give the output to the user regarding the top and bottom performing assets using financial indicators**

Tasks:

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| **Financial tasks** | **Coding tasks** |
| Enlist all the financial indicators used in technical analysis | Formulate algorithm |
| Fundamental analysis: financial ratios |  |
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Resources:

Finance resources:

1. Varsity
2. Zerodha Kite

Coding

1. Python and its libraries
   1. Yfinance
   2. Numpy
   3. Pandas
   4. Matplotlib to get visuals

To Do:

1. Divide the program in 3 parts, using if, elif and else:
   1. User asks for a particular stock info and our program gives technical analysis (if user types T) or fundamental analysis (if user types F). And our program will return value “good to buy” or “good to sell” depending on the analysis by the program.
   2. User is not interested in the performance of the one company and wants to know the performance of all the companies listed. For this, user will be asked to type “T” or “t”. The user will get 10 top performing companies in last 3-4 (This can be user derived variable too) months based on moving averages, RSI (Relative Strenght Index), variance from Bollinger bands etc (add on to this list if more indicators are to be used). Based on this list of indicators, we will use weighted average marking scheme to mark all the stocks based on importance of all the indicators and performance of the stocks therefore will be ranked.
   3. Similar to above situation, user can ask for fundamental analysis of all the companies. Our program will run calculations in background and rank all the stocks based on the above idea of weighted average formula. The indicators will be financial ratios and Greek variables like Beta, theta etc.
2. Make algorithm for the above idea.