**PROJECT DA47-48**

Link - <https://www.nseindia.com/all-reports>

**Task 1** (data collection) - Extract 5 days of files from the given link (Make sure as saturdays and sundays are off, and there are market holidays also, so you get these 5 days accordingly)

1st way - manually download the zip file, unzip it and store it in a folder (easy)

2nd way - manually download the zip files of 5 days, code in python to unzip it (medium)

3rd way - use python to automate this process, with number of days as variable (hard)

HINT -

1. Using requests library in python
2. Using wget in terminal, try running terminal commands from python (get link from the inspect section)

**Task 2** (Data Cleaning) - You’ve to clean the 5 days files and store only the values having SERIES = EQ (easy) and change the file names to YYYYMMDD.csv format using python (medium to hard). Eg. cm01AUG2023bhav.csv -> (20230615.csv)

**Task 3** (Data Storage) -

Easy - Store it in folder, use it from there

Medium to Hard - Create a MySQL database in your personal laptops (download MYSQL) and move this 5 day data to the database using python. (Link - <https://dev.mysql.com/downloads/mysql/>)

**Task 4** (Main Process) -

Create one more table in the same database and store only symbol name, date, close, TOTTRDQTY, and store rolling moving average on close price on sorted dates of 2 days (easy)

Medium and Hard Level -> make moving average dynamic in nature

HINT - see pandas dataframe rolling function

**Task 5** (Output) -

Easy - Print all the symbol names having close price value > rolling moving average

Medium Hard - return this in a file.

df.to\_csv(‘file\_name’)

**Task 6** (VERY ADVANCE, Completely Optional) - Automate this process and send mails daily of the final output file. (MASTER) using python

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