**GVE Team Trainee Case study – 1**

1. Goto <https://www.nseindia.com/all-reports>
2. Download bhavcopy.**csv** (csv file, there will be many other bhavcopy files) for 15 working days(3 weeks). Lets say Jun 1st 2022 to Jun 20th 2022 (Working days)
3. Extract all zip files into one folder. (bhavcopy)

All above steps are manual.

**Environment**

1. Create a git hub repository and give access to all of your 4 (including me – [siva.sunku.public@gmail.com](mailto:siva.sunku.public@gmail.com))
2. Collaborate your self and build a package (We will discuss tomorrow)

**Code/module**

1. Create a pandas dataframe with date as index and below trades as columns.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SYMBOL | SERIES | OPEN | HIGH | LOW | CLOSE | LAST | PREVCLOSE | TOTTRDQTY | TOTTRDVAL | TIMESTAMP | TOTALTRADES |
| 20MICRONS | EQ | 68 | 70.6 | 67.1 | 68.65 | 68.45 | 68.9 | 86403 | 5931160 | 17-Jun-22 | 2219 |
| 21STCENMGM | EQ | 22 | 22 | 21.95 | 22 | 22 | 21.6 | 6779 | 149100.5 | 17-Jun-22 | 19 |
| 364D150623 | TB | 94.36 | 94.36 | 94.36 | 94.36 | 94.36 | 94.15 | 25000 | 2359000 | 17-Jun-22 | 1 |
| 3IINFOLTD | EQ | 41.8 | 41.8 | 40.2 | 40.7 | 40.85 | 41.8 | 373754 | 15211013 | 17-Jun-22 | 4547 |

1. Select only given list of shares/equities into a different table [TCS,NIFTY,RELIANCE,NIFTYIT,SBIN,INFY]
2. Write the selected shares, Date, Open, High, Low, Close, TotalTrdqty, Totalqty into different csv file
3. Find the correlation between following pairs
   1. TCS-INFY, TCS-NIFTY,TCS-NIFTYIT, TCS-RELIANCE, RELIANCE-SBIN

Correlation: What is the percent of days both went in same direction to total no. of days.

1. Read the csv file created in step#3, and add columns 2-D Average, 5-D Average price
   1. 2D Avg is average close price of last two days
   2. 5D Avg is average close price of last 5 days