

STOCK MARKET ANALYSIS

- **Data need to be considered:**

In this assignment, the Stock price data provided is from 1-Jan-2015 to 31-July-2018 for six stocks Eicher Motors, Hero, Bajaj Auto, TVS Motors, Infosys and TCS.

we need to mainly focus on Date and Close Price data as these will help in generating MA.

- **Generating MAs:**

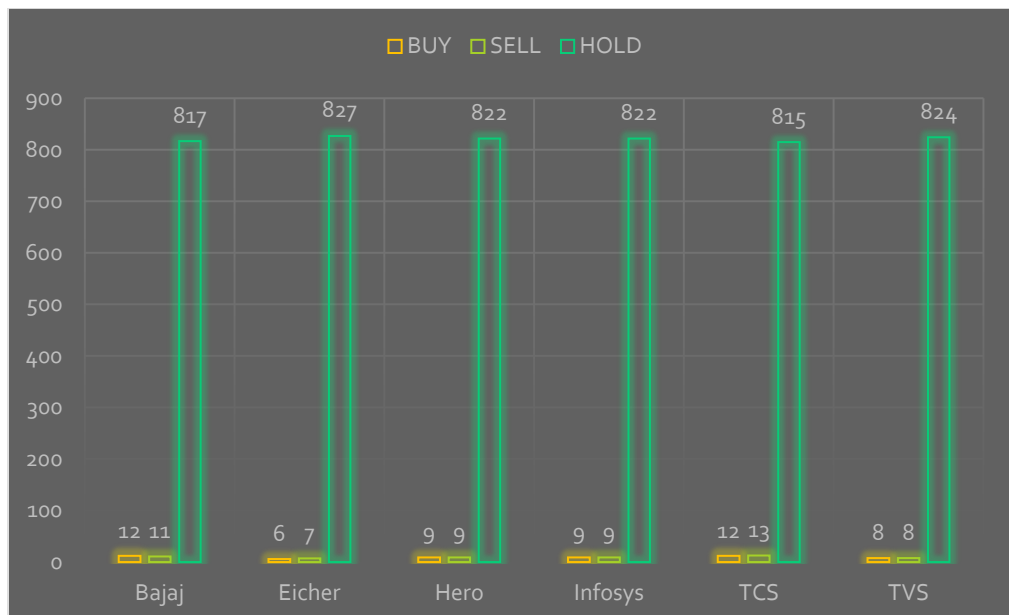
We have generated 20 Days MA and 50 Days MA for each row by taking the average of current row and previous 19 rows, and average of current row and previous 49 rows of close price respectively.

- **Generating Signals:**

1. If current row $20MA > 50MA$ and previous row $20MA < 50MA$ then signal is '**BUY**'.
2. If current row $20MA < 50MA$ and previous row $20MA > 50MA$ then signal is '**SELL**'.
3. If above two conditions don't meet, then the signal is '**HOLD**'.

- **Best time to BUY or SELL the stock:**

Graphical representation of signals of all six stocks which we have generated by above process:



So, from the above graph, we can say that the Bajaj Auto stock has 12 best days to BUY and 11 best days to SELL the stock. Similarly, we can observe for all other stocks.

We can use our UDF to generate the signal for Bajaj stock by providing the desire date.

- **Best Stock to BUY or SELL:**

So, from the above data we can say that Bajaj and TCS stocks are best to **BUY** whereas TCS stock is best to **SELL** among all stocks during 03-Mar-2015 to 31-July-2018 period.