

Assignment Summary

STEP 1:

- Tables created for bajaj1, hero1, eicher1, infosys1, tcs1 and tvs1 stock.
- 20 and 50 Moving average calculated for all the six stocks with their respective close price and dates.

STEP 2:

- Master table created containing the date and close price of all the six stocks.

STEP 3:

Buy and sell signal generated using the table created in **STEP 1**.

Below is the criteria set for signal generation:

- When the 20_Day_MA is greater than the 50_Day_MA, it is a signal to BUY, as it indicates that the trend goes high.
- When the 20_Day_MA is less than the 50_Day_MA, it is a signal to BUY, as it indicates that the trend is going low.
- When the signal is neither buy nor sell, it is classified as hold.

STEP 4:

- Created a User defined function that takes the date as input and returns the signal as a string for that particular day (Buy/Sell/Hold) for the stock.
- Trend Analysis: Below is the Trend Analysis table performed for all the 6 stocks.

STOCK	ClosingPrice_Max	ClosingPrice_Min	TREND
Bajaj	3409.5	1949.4	42.82%
Hero	4047.3	2279.8	43.67%
TCS	3604.8	1721.2	52.25%
Eicher	32786.4	14320.6	56.32%
Infosys	2326.6	873.5	62.45%
TVS	785.3	213.55	72.80%

STEP 5: (Observation)

As we see that the stock TVS has the highest trend percentage as per our trend analysis we can Concluded that it is the most volatile stock among all.