STOCK MARKET ANALYSIS

- Concept of Moving Average(MA)

Moving Average is indicator which is widely used in technical analysis in Stock Market. Simple Moving Average is a type of Moving Average which is calculated by taking average sum of the close price and divided by the number of periods in the moving average.

- Concept of Signal Generation

For generating Signal, difference of short term MA and long term MA crosses each other, means if nth row difference is positive and (n-1)th row difference is negative then signal is 'BUY' otherwise 'SELL'. For all other cases signal is 'HOLD'.

- Process Follow

i. Import CSV file of all the stocks in MYSQL.

ii. Create new table for Moving Average calculation.

iii. Create another table for Signal generation using Moving Average.

- Result Analysis and Inferences

Bajaj's Stock shorter-term moving average crosses above the longer-term moving average maximum number of times that's why maximum Buy signal is generated which indicates that the trend is shifting up and investors are showing confidence in buying of Bajaj Stock.(BUY=12, SELL=11)

 Eicher's and TCS shorter term moving average crosses below the longer term moving average maximum number of times that's why maximum Sell signal is generated with respect to Buy signal which indicates the trend is shifting down.(Eicher - BUY=6, SELL=7 and TCS- BUY=12, SELL=13)

- Learning

i. I learnt Moving Average and Signal Generation in Stock Market.

ii. I learnt importing of CSV file in MYSQL, Window function, Case statement, creating table and performing various operation on table.