Assignment_8: Course CS561

Team Members (Name and Roll No):

- 1.Vishal K Singh (B18150)
- 2.Shashank Dwivedi(B18192)
- 3.Sanskar Gupta(B18140)
- 4.Om pandey(B18182)
- 5.Rahul kumar(b18079)

Objectives:

- 1- to implement an overall algo-trading system which will have sell ,buy, short and many other useful functions .
- 2-We will implement 3 trading indicators macd, ema, bollinger which will help user in deciding whether to buy or sell the stock.

Implementation idea:

- 1-We will download live /realtime data from yahoo finance website using yfinance python library(provided freely).
- 2-We will implement 3 trading indicators in python.
- 3-User will choose any stock/company listed on the stock market.
- 4-Using trading indicators he will get signals whether to buy or not.
- 5- user will be given 2 options:
- a) Users can fully automate the algorithm where buying and selling will happen automatically.
 - b) User will get only signals so that he can decide to buy or sell the stock.

How to decide performance:

- 1-We will be using a backtracking method to check if our algorithm works on previous available data of any random stock if it's giving good buy/sell signals.
- 2-We will implement a loss/profit function which will calculate profit/loss made after trading using our algorithm .This function will tell our algo's performance.