The Kite PnL Problem Statement

The client has given us "orders" file which is in CSV format. This file contains data on all trades made by an intraday trader in different stocks.

The column fields are:

- 1. Time: It is a timestamp (date with time)
- 2. **Type**: It explains the type of trade (Buy or Sell)
- 3. Instrument: This is the name of a stock
- 4. **Product**: "MIS" means it is an intraday *trade* meaning we have to buy and sell on the same day. "CNC" orders are held for longer than 1 day. We are interested in MIS products.
- 5. **Qty**.: This contains the number of shares bought or sold. The format is: number_of_shares_executed/total_number_of_shares_placed_by_trader
- 6. Avg. Price: This is the price at which trade took place (can be either buy or sell).
- 7. Status: It contains three fields
 - a. Cancelled: This means the order is cancelled by the trader.
 - It might be possible that a trader cancels an order before it is completely executed or partially executed.
 - A trader can't cancel an order if it is fully executed.
 - b. Rejected: It means the order is rejected by the stock exchange.
 - The reasons could be incorrect price, insufficient funds etc.
 - We can ignore this type of trade in calculations.
 - c. <u>Completed</u>: It means the order is completed.

Client Requirement:

Create a summary file in Excel that should contain three tables in different Excel sheets:

- 1) Different types of charges for Individual trade
- 2) Instrument and Type wise analysis with weighted Avg. price & all calculated charges
- 3) Overall Summary of Stocks with **Gross PnL**, **Net PnL**, **Total Charges and % Charges on Gross PnL**.

Your Task:

You have to write a Python program which will calculate the above-mentioned charges and write them into an Excel file.

To calculate transaction charges, refer to this: https://zerodha.com/charges#tab-equities In above link check for **Equity Intraday** section. Use **NSE values** for calculations.

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