STOCK MARKET SIMULATOR

This is a basic implementation of a Stock Market Simulator in C++ using the concepts of OOPs, Multithreading, Mutual Exclusion algorithms(mutex locks) and some Data structures like Unordered_map.

There are 3 Main classes:

- **Stock**: The `Stock` class represents a stock with a symbol, current price, and available volume. It can update its price and volume.

- **Trader:** The `Trader` class represents individuals participating in trading. Each trader has a name and a portfolio of stocks they own. Traders can place orders to buy or sell stocks and can display their current portfolio.

- **Market:** The `Market` class manages a collection of stocks available for trading. It allows adding stocks to the market, executing trading orders for traders, and listing all available stocks in the market.