C++ FINAL PROJECT

This project is basically an implementation of an account management system. It consists of 2 parts – the stock portfolio account and the bank account.

1. Stock Portfolio

This portion of the project explores the stock management. A user can view the price per share of the stocks (using viewAccountBalance(string) function - this will return the price of each share), display the portfolio (using printList() – prints the stocks he has purchased/sold), buy and sell shares (buyShares() and sellShares() respectively, while printing the transaction details), view the graph for the portfolio values (using viewgraph() - uses MATLAB to view the graph), print the transaction history (using transactionHistory()), along with the option to return to the previous menu.

2. Bank Account

This portion of the project explores the bank account management system. A user can view the account balance (using viewAccountBalance() – prints the amount of money in his/her account), deposit/withdraw money to/from his/her account(using deposit/withdraw functions – which updates his/her account balance accordingly and prints the transaction details and stores to a file using writeToFile(int) function) and view the transaction history, which is displayed on screen.

The design patterns used were the strategy pattern and the wrapper and adapter pattern.