Hello, my name is MB and this is a brief document regarding the nature of my midterm program.

The program is a rudimentary banking simulation program that prompts the user to log in to one of three different accounts, then allows the user to view the info (name, account number, account type, current balance, account status) associated with the chosen account, make a purchase or deposit, or sign out/exit program. The program also saves the transaction history to a text file.

The user signs in by entering the account numbers 1001, 1002 or 1003. This information is also provided in the readme.file in my Github repository.

The concepts I used here are listed below:

Arrays

Binary Search Algorithm

Booleans

Classes & Objects

Constants & Data Types

Constructors

File Input & Output

**Header Files** 

Loops

**Member Functions** 

**Pointers** 

Strings

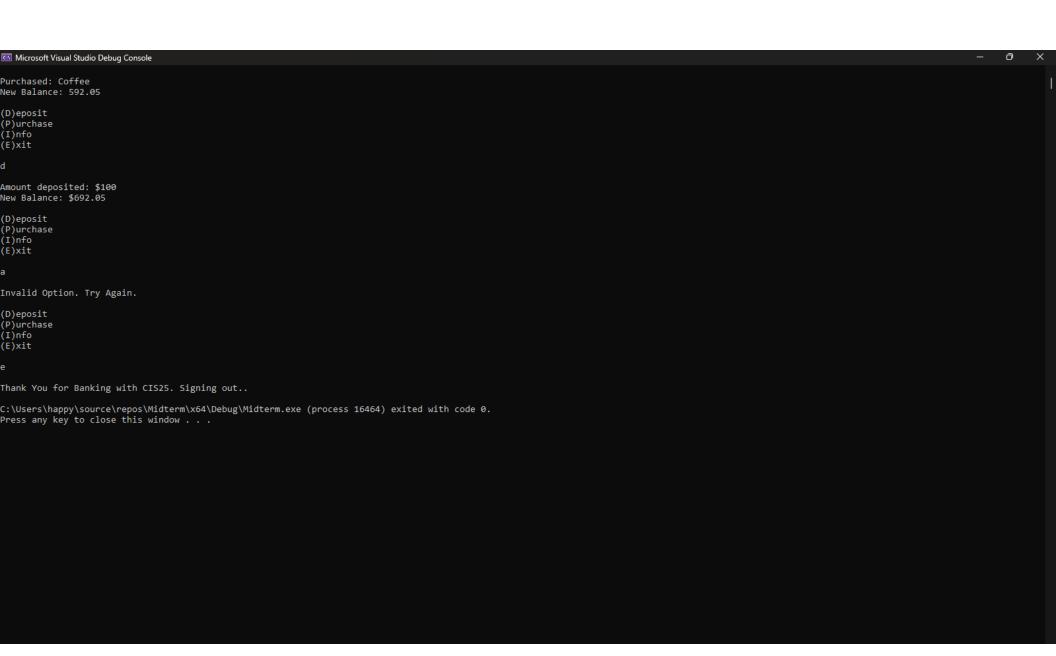
I faced two challenges while writing this code. The first was structure and the second was debugging, then revising my code for any unnecessary lines.

Currently I am not very knowledgeable about basic coding including using multiple classes and files, so it was a bit difficult in the beginning to decide where the rest of the code should go after creating the BankAccount.h, BankAccount.cpp and main.cpp files without cluttering any of them. Eventually, I decided to make additional files for the code associated with the banking system.

The other issue - revision was easily fixable in hindsight, but it was much more difficult at the time. I was testing out whether or not I needed to include some header files for every single file, which led to me deleting 'using namespace std;' from the BankAccount.h file. That was a huge mistake that caused over 40 errors and I didn't realize that was the issue until I started undoing every action in every file. Unless you're extremely sure you don't need it, always use 'using namespace std;' !!!

Finally, screenshots of the program running are provided on the pages below:

Microsoft Visual Studio Debug Console Welcome to the CIS25 Online Banking System. Please Enter your Account Number to Log In: 1003 (D)eposit (P)urchase (I)nfo (E)xit ----Account Info----Account Holder: Carol Account Number: 1003 Account Type: S Account Status: Active Balance: \$600 (D)eposit (P)urchase (I)nfo (E)xit Purchased: Coffee New Balance: 592.05 (D)eposit (P)urchase (I)nfo (E)xit Amount deposited: \$100 New Balance: \$692.05 (D)eposit (P)urchase (I)nfo Invalid Option. Try Again. (D)eposit (P)urchase (I)nfo (E)xit



Microsoft Visual Studio Debug Console Welcome to the CIS25 Online Banking System. Please Enter your Account Number to Log In: 1 Account not found. Please Refer to the README file for Further Help. Exiting. C:\Users\happy\source\repos\Midterm\x64\Debug\Midterm.exe (process 25540) exited with code 0.
Press any key to close this window . . . . Microsoft Visual Studio Debug Console Welcome to the CIS25 Online Banking System. Please Enter your Account Number to Log In: 1001 (D)eposit (P)urchase (I)nfo (E)xit ----Account Info----Account Holder: Alice Account Number: 1001 Account Type: S Account Status: Active Balance: \$300 (D)eposit (P)urchase (I)nfo (E)xit Amount deposited: \$100 New Balance: \$400 (D)eposit (P)urchase (I)nfo Purchased: Coffee New Balance: 392.05 (D)eposit (P)urchase (I)nfo (E)xit Thank You for Banking with CIS25. Signing out.. C:\Users\happy\source\repos\Midterm\x64\Debug\Midterm.exe (process 10648) exited with code 0. Press any key to close this window . . .\_

