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**CS 2024 – C++ Programming**

**Assignment #5: Bank**

Given that this assignment was a continuation of assignment 3 and 4, I felt very prepared in further practicing the C++ concepts that I have learnt in class. I liked the incorporation of using previous methods and classes with new implementations of a broader concept. I like the fact that we started on a micro scale of menu and are expanding to the macro concept of a general bank. I have finally understood the difference between the header definition file and the declarations, ie. the difference between .h and .cpp. Despite some bumps, I still managed to finish this assignment really quickly and everything else went rather smooth.

For main.cpp, it was really similar to last assignment’s where I had to switch between cases of the user input to determine which function to run. In this case, use cNewAccount and cListAccounts instead. For adding on to bankaccount.cpp, I wrote both getter and setters for customer name and bank number and also created a private field for these variables. I honestly felt that this assignment was much easier after reading up on vector for C++ online. I was really intrigued by how the insert function of a vector required the position to be an iterator instead of an int value, though I don’t know why this is the case. It was really sad to see all my hard work from last class, eg. Withdrawals and deposit functions of bankaccount, get deleted and not being implemented in this assignment as it would’ve been cool to access newly created accounts and change it using these functions. Maybe it is saved for a later on assignment given how much effort and time it would require for some?

I also realized that I should not #include another header file inside a header file, but instead include it inside the .cpp file instead. Somehow if I do both, it causes a duplication and it prevents errors if you put it in the cpp file. This was the bug that took the longest for me to figure out. Furthermore, I didn’t know that I had to #include<vector> and it was a really cheeky thing for the prof to leave out on in the assignment description. Maybe this is only required for my computer?

Overall, this was a really fun and simple assignment that had some challenging parts here and there. I also further delve more into the point and refer shortcut from last time and continued to use the this-> simplification method instead of (BankAccount:: or Bank::) when it came to accessing private variables inside the class.