**Pseudocode - Banking Application - HW05**

*Add\_Account in Banking\_Application.cpp*

1. Prompt user for his/her name
2. Read the name from user (w/ proper formatting)
3. Prompt user for type of account to create
4. Read type of account to create from user
5. Attempt to add new account to user with specified name
6. **if** userdoesn’t exist with such name
7. Notify user that new name registry must be created
8. Prompt for user’s address
9. Read user’s entered address
10. Prompt for user’s telephone #
11. Read user’s telephone #
12. Prompt for user’s age
13. Read users age
14. Prompt for user’s type of customer (choice)
15. **if** first option chosen
16. Set up user as an “Adult”
17. **if else** second option chosen
18. Set up user as a “Senior”
19. **else**
20. Set up user as a “Student”
21. **if** an account was successfully created
22. Display information about the new account
23. **else**
24. Display error that account wasn’t created

*make\_deposit() methods in Bank.h and Banking\_Application.cpp*

1. Prompt user for his/her account id
2. Read user’s account id
3. Prompt user for the amount to deposit
4. Read user’s amount to deposit
5. **Call the Bank’s deposit method** (passing the collected info)
6. Attempt to find the account using the account id provided by user
7. **if** account is found
8. Add the amount provided to account balance
9. **else**
10. Display error message saying account was not found with given id

*make\_withdrawal() methods in Bank.h and Banking\_Application.cpp*

1. Prompt user for his/her account id
2. Read user’s account id
3. Prompt user for the amount to withdraw
4. Read user’s amount to withdraw
5. **Call the Bank’s withdraw method** (passing the collected info)
6. Attempt to find the account using the account id provided by user
7. **if** account is found **and** enough money on account
8. Subtract the amount provided to account balance
9. **else if** account is found **and** not enough money on account
10. Display error saying not enough money to withdraw the requested amount
11. **else**
12. Display error saying account was not found with given id

*Overloaded add\_account() methods in Bank.h*

*(Create account - General)*

1. **if** account type is checking
2. Create a checking account
3. **else**
4. Create a savings account
5. **return** the created account

*(Old customer - Search)*

1. Find old customer by his/her name
2. **if** customer is not found
3. Report nothing (null) to indicate nothing was found
4. **return** the created account **(use add\_account general)**

*(New Customer - Creation)*

1. Register a new customer based on the passed in parameters
2. Add the customer to bank database
3. **return** a newly created first account **(use add\_account general)**

*get\_account() in the Bank.h*

1. **for** the size of the accounts database (array)
2. **if** the account # matches the searched account #
3. **return** the matched account
4. **return** nothing since nothing was found