**CST 231 PLTL Week 8**

**Exercise 1:**

ATM Machine: Create a program that simulates an ATM Machine allowing the bank to create

new accounts for new customers. Customers can make deposits, withdraws, and view the

account balance. This program should include the following:

* Create a struct called ATM, with the following members: Customer Name, account

number, balance and PIN. Create a function to print the balance to the screen.

* Create a function to create a random 6 digit account number for the customer and the

initial starting balance for the customer which must be greater than $100.

* Create a function that allows the customer to set a 4 digit PIN, this function should

make sure the new PIN doesn’t equal the last PIN they had and make sure all 4 digits

aren’t the same number. (E.G. 0000,1111,2222, etc.)

* Create a function that will check the customer account number and PIN then prints the

following options on the screen: print the balance, withdraw, deposit, change PIN, exit.

* Create a function that allows the customer to withdraw money, this function must

check the available balance to make sure the customer has enough funds, it also has to

be divisible by 20.

* Create a function that allows the customer to deposit money, this function must make

sure the deposit value is greater than zero, and less than 10,000. If it is greater than

10,000 it must tell the user that they must fill out tax documents for that amount and

cancel the transaction.

Bonus Functions:

* Create a secret menu for the ATM, that will allow the user to “Hack” their balance to

whatever they want. Have the ATM start spitting out money. Crash the ATM program.

* Come up with your own ATM functions or Display. Be creative!