ATM.CPP:

#include "ATM.h"

#include "bankaccount.h"

ATM::ATM(){

tens = 0;

twenties = 0;

}

ATM::ATM(int numTens, int numTwenties){

tens = numTens;

twenties = numTwenties;

}

BankAccount ATM::get\_cash(int amount, BankAccount b){

int atmTotalMoney = twenties\*20 + tens\*10;

if(amount > b.get\_balance()){

std::cout <<"Your balance is " << b.get\_balance() << " you have insufficient funds."<<std::endl;

}

else if(atmTotalMoney < amount){

std::cout << "The ATM is low on money and can not let you withdraw, We're sorry!"<<std::endl;

}

else{

int numTwenties = (amount/20);

int numTens = (amount%20)/10;

std::cout << "You will receive " << numTwenties << " twenty dollar bills and " << numTens << " ten dollar bills. Thank you!" << std::endl;

b.withdraw(amount);

}

return b;

}

void operator +=(ATM& rhs){

tens = tens + rhs.getTens();

twenties = twenties + rhs.getTwenties();

}

void restock(int new20s, int new10s){

twenties = twenties + new20s;

tens = tens + new10s;

}

bool operator ==(ATM lhs, ATM rhs){ //returns true if the two ATMS contain same amoutn of $

if (lhs.getTens() == rhs.getTens() && lhs.getTwenties() == rhs.getTwenties()){return true;}

else{return false;}

}

std::ostream& operator <<(std::osteam& out, ATM a){ // Prints out info about a in a sensible format

std::cout<<"Number of twenties: " << ATM::a.getTwenties() <<endl;

std::cout<<"Number of tens: " << ATM::a.getTens() <<endl;

int totalAmount = a.getTwenties()\*20 + a.getTens()\*10;

std::cout<<"Total amount in ATM: " << totalAmount <<endl;

}

ATM.H:

#include <iostream>

#include "bankaccount.h"

class ATM{

private:

int twenties, tens;

public:

ATM();

ATM(int numTens, int numTwenties);

BankAccount get\_cash(int amount, BankAccount b);

void operator +=(ATM& rhs);

void restock(int new20s, int new10s);

int getTens(){

return tens;

}

int getTwenties(){

return twenties;

}

};

bool operator ==(ATM lhs, ATM rhs); //returns true if the two ATMS contain same amoutn of $

std::ostream& operator <<(std::ostream& out, ATM a); // Prints out info about a in a sensible format

Main:

#include <iostream>

#include "bankaccount.h"

using namespace std;

int main()

{

BankAccount bill;

BankAccount bob(1991821, 100, 928040892, "Bob Smith");

// bob.print\_client();

bill=bob;

//bill.print\_client();

cout<<bill<<bob;//Why we return out!!!!

cout<<(bill==bob)<<endl;

//cout<<(bill!=bob)<<endl; separate operator

bill.withdraw(50);

//bob.print\_client();

//bill.print\_client();

cout<<(bill==bob)<<endl;

cout<<(bill<bob)<<endl;

bill.withdraw(50);

//bob.print\_client();

//bill.print\_client();

cout<<(bill==bob);

return 0;

}