**Renee Thomas**

**CIS170C\_Lab06**

**2/18/14**

**Lab # CIS CIS170C-A6**

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// Programming Assignment: LAB06

// Developer: Renee Thomas

// Date Written: 2/18/14

// Purpose: Object Oriented Programming – ATM machine

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//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// ATMMain.cpp file

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#include "menuBuilder.h"

#include <iostream>

#include <iomanip>

using namespace std;

void main(void){

int choice = 0;

ATM c1("Renee Thomas","12345678",500.00);

while(choice != 7)

{

c1.ATMmenu();

cin >> choice;

c1.ATMChoice(choice);

}

system("pause");

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// ATM.h file

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#include <string>

#include <iostream>

using namespace std;

class ATM {

private:

string name;

string AcctNum;

double bal;

double changeBal;

public:

ATM(string nm, string Acct, double bal); //Constructor

ATM(); //default constructor

~ATM(); //Destructor

void setname(string nm);

string getname();

void setAcctNum(string Acct);

string getAcctNum();

void setbal(double bal);

double getbal();

void about();

void AcctInfo(string nm, string acct);

void ATMmenu();

void statement();

void ATMChoice(int choice);

};

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

// ATM.cpp file

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#include "menuBuilder.h"

using namespace std;

ATM::ATM(string nm, string Acct, double b){ //Constructor

name = nm;

AcctNum=Acct;

bal = b;

}

ATM::ATM(){ //Constructor

name = "Student Name";

AcctNum="5551212";

bal = 400.00;

}

ATM::~ATM(){}//Destructor

void ATM::setname(string nm){

name = nm;

}

string ATM::getname(){

return name;

}

void ATM::setAcctNum(string Acct){

AcctNum = Acct;

}

string ATM::getAcctNum(){

return AcctNum;

}

void ATM::setbal(double bal)

{

bal = bal;

}

double ATM::getbal()

{

return bal;

}

void ATM::about(){

cout<<"Devry Bank, established 2011"<<endl;

cout<<"(123) 456-7890"<<endl;

cout<<"12345 1st St."<<endl;

cout<<"Someplace, NJ 12345"<<endl;

}

void acctInfo(string nm, string acct)

{

cout<<"Name on Account: "<<nm<<"\tAccount Number: "<<acct<<endl;

}

void ATM::ATMmenu()

{

cout << endl;

cout << " ATM Menu " << endl << endl;

cout << "1. Check balance " << endl;

cout << "2. Make witherawl" << endl;

cout << "3. Make deposit" << endl;

cout << "4. View account information" << endl;

cout << "5. View statement" << endl;

cout << "6. View bank information" << endl;

cout << "7. Exit" << endl;

cout << " Enter Choice: ";

}

void ATM::statement(){

cout << "01/01/11 - McDonald\'s - $6.27"<<endl;

cout << "01/15/11 - Kwik Trip - $34.93"<<endl;

cout << "02/28/11 - Target - $124.21"<<endl;

}

void ATM::ATMChoice(int choice)

{

switch(choice)

{

case 1: cout << "Current balance is: "<<bal << endl;

break;

case 2: cout << "How much would you like to withdraw?: ";

cin >> changeBal;

if ( changeBal < bal)

{

bal -= changeBal;

cout << "Your new balance is: $" << bal <<endl;

}

else

{

cout<<"Insuficient Funds"<<endl;

}

break;

case 3: cout << "How much would you like to deposit? ";

cin >> changeBal;

bal += changeBal;

cout << "Your new balance is: $ " << bal <<endl;

break;

case 4:

acctInfo(name, AcctNum);

break;

case 5:

statement();

break;

case 6:

about();

break;

case 7: cout << "Thank you for banking at Devry Bank. Good-Bye" << endl; break;

default:

cout << "invalid choice" << endl; break;

}// switch

}











