#include<conio.h>

#include<iostream>

#include<string>

using namespace std;

/\* Mini Project - ATM

-> Check Balance

-> Cash Withdraw

-> User Details

-> Update Mobile No.

\*/

class atm // class atm

{

private: // private member variables

long int account\_No;

string name;

int PIN;

double balance;

string mobile\_No;

public: // public member functions

// setData function is setting the Data into the private member variables

void setData(long int account\_No\_a, string name\_a, int PIN\_a, double balance\_a, string mobile\_No\_a)

{

account\_No = account\_No\_a; // assigning the formal arguments to the private member variables

name = name\_a;

PIN = PIN\_a;

balance = balance\_a;

mobile\_No = mobile\_No\_a;

}

//getAccountNo function is returning the user's account no.

long int getAccountNo()

{

return account\_No;

}

//getName function is returning the user's Name

string getName()

{

return name;

}

//getPIN function is returning the user's PIN

int getPIN()

{

return PIN;

}

//getBalance is returning the user's Bank Balance

double getBalance()

{

return balance;

}

//getMobileNo is returning the user's Mobile No.

string getMobileNo()

{

return mobile\_No;

}

//setMobile function is Updating the user mobile no

void setMobile(string mob\_prev, string mob\_new)

{

if (mob\_prev == mobile\_No) // it will check old Mobile no

{

mobile\_No = mob\_new; // and Update with new, if old matches

cout << endl << "Successfully Updated Mobile No.";

getch(); //\_getch() is to hold the screen ( until user presses any key )

}

else // Does not update if old mobile no. does not matches

{

cout << endl << "Incorrect !!! Old Mobile No.";

getch(); //\_getch() is to hold the screen ( until user presses any key )

}

}

//cashWithDraw function is used to withdraw money from ATM

void cashWithDraw(int amount\_a)

{

if (amount\_a > 0 && amount\_a < balance) // check entered amount validity

{

balance -= amount\_a; // balance = balance - amount\_a

cout << endl << "Please Collect Your Cash !";

cout << endl << "Available Balance: " << balance;

getch(); //\_getch() is to hold the screen(until user presses any key )

}

else

{

cout << endl << "Invalid Input or Insufficient Balance";

getch(); //\_getch() is to hold the screen ( until user presses any key )

}

}

};

/////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////

int main()

{

int choice = 0, enterPIN; //enterPIN and enterAccountNo. ---> user authentication

long int enterAccountNo;

system("cls");

// created User ( object )

atm user1;

// Set User Details ( into object ) ( Setting Default Data )

user1.setData(1234567, "Jack", 1111, 100000.0, "9087654321");

do

{

system("cls");

cout << endl << "\*\* Welcome to ATM \*\*" << endl;

cout << endl << "Enter Your Account No.: "; // asking user to enter account no

cin >> enterAccountNo;

cout << endl << "Enter PIN: "; // asking user to enter PIN

cin >> enterPIN;

// check whether enter values matches with user details

if ((enterAccountNo == user1.getAccountNo()) && (enterPIN == user1.getPIN()))

{

do

{

int amount = 0;

string oldMobileNo, newMobileNo;

system("cls");

// user Interface

cout << endl << "\*\* Welcome to ATM \*\*" << endl;

cout << endl << "Select Options:";

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

cout << endl << "2. Cash Withdraw";

cout << endl << "3. Show User Details";

cout << endl << "4. Update Mobile No.";

cout << endl << "5. Exit" << endl;

cin >> choice; // taking user choice

switch (choice) // switch condition

{

case 1: // if user presses 1

cout << endl << "Your Bank Balance is: " << user1.getBalance();

// getBalance is ... printing the users bank balance

getch();

break;

case 2: // if user presses 2

cout << endl << "Enter the Amount: ";

cin >> amount;

user1.cashWithDraw(amount); // calling cashWithdraw function

// passing the withdraw amount

break;

case 3: // if user presses 3

cout << endl << "\* User Details are :- \* ";

cout << endl << "-> Account No.: " << user1.getAccountNo();

cout << endl << "-> Name: " << user1.getName();

cout << endl << "-> Balance: " << user1.getBalance();

cout << endl << "-> Mobile No.: " << user1.getMobileNo();

// getting and printing user details

getch();

break;

case 4: // if user presses 4

cout << endl << "Enter Old Mobile No. ";

cin >> oldMobileNo; // take old mobile no

cout << endl << "Enter New Mobile No. ";

cin >> newMobileNo; // take new mobile no

user1.setMobile(oldMobileNo, newMobileNo); // now set new mobile no

getch();

break;

case 5: // if user presses 5

exit(0); // exit application

default: // handle invalid user inputs

cout << endl << "Enter Valid Data !!!";

getch();

}

} while (1); // MENU // condition will always TRUE and loop is capable of running infinite times

}

else

{

cout << endl << "User Details are Invalid !!! ";

getch();

}

} while (1); //LOGIN // condition will always TRUE and loop is capable of running infinite times

return 0;

}