#include<iostream>

using namespace std;

class Atm //Name of the super class

{

//need to declare the member data

protected: //Access Modifier

string name; //MemberData

int balance; //MemberData

public: //Access Modifier

Atm(string n,int b)//parameterized constructor

{

this->name=n; //Statement

this->balance=b; //Statement

}

void method()

{

cout<<"Enter banking details"<<endl;

cout<<"Enter your name"<<endl;

cin>>name;

}

};

class Balance:public Atm//this is a sub class

{

public:

Balance(string n,int b):Atm(n,b){}

void method()

{

cout<<"Your balance:"<<balance<<endl;

}

};

class Withdraw:public Atm//this is a sub class

{

protected://Access modifier

int amount,money;

public://Access modifier

Withdraw(string n,int b):Atm(n,b){}

void method()

{

cout<<"Enter amount of transaction"<<endl;

cin>>money;

amount=balance-money;

cout<<"Your current balance is="<<amount<<endl;

}

};

class Deposit:public Atm

{

protected://Access modifier

int amount,money;

public://Access modifier

Deposit(string n,int b):Atm(n,b){}

void method()

{

cout<<"Enter amount of transaction"<<endl;

cin>>money;

amount=balance+money;

cout<<"Your current balance is ="<<amount<<endl;

}

};

main()//the main function

{

char option;

int z=1000;

string Pass="estp";

string x;

Atm \*ob1;//creating object

Balance \*ob2;//creating object

Withdraw \*ob3;//creating object

Deposit \*ob4;//creating object

ob1=new Atm(x,z);

ob1->method();

string y;

cout<<"Enter your password"<<endl;

cin>>y;

if(Pass==y)//if condition

{

cout<<"Enter your option"<<endl;

cin>>option;

switch(option)

{

case 'a':

ob2=new Balance(x,z);

ob2->method();

break;

case 'b':

ob3= new Withdraw(x,z);

ob3->method();

break;

case 'c':

ob4=new Deposit(x,z);

ob4->method();

break;

}

}

else

cout<<"Invalid Password"<<endl;

}