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#include<iostream>
#include<stdio.h>
using namespace std;
class ATM
{
    private:
        char name[20];
        int tot_bal,amount,account,PIN,Pin,accnumber;
    public:
        void getdata()
        {
            cout << "Enter name\n";
            cin>> name;
            cout << "Enter Account number\n";
            cin >> accnumber;
            cout<<"Enter your ATM PIN\n";
            cin>>Pin;
            cout << "Enter Balance\n";
            cin >> tot_bal;
        }

        void showdata()
        {
            cout<<"Enter your Account Number\n";
            cin>>account;
            cout<<"Enter your ATM PIN\n";
            cin>>PIN;
            if(account==accnumber)
            {
                if(PIN==Pin)
                {
                    cout << "Name:" << name << endl;
                    cout << "Account No:" << accnumber << endl;
                    cout << "Balance:" << tot_bal << endl;
                }
                else
                {
                    cout<<"!! Enter Valid PIN";
                }
            }
            else
            {
                cout<<"The Account number Does not Exist:";
            }
        }

        void deposit()
        {
            cout<<"Enter your Account Number\n";
            cin>>account;
            cout<<"Enter your ATM PIN\n";
            cin>>PIN;
            if(account==accnumber)
            {
                if(PIN==Pin)
                {
                    cout << "\nEnter amount to be Deposited\n";
                    cin >> amount;
                    cout<<"Your Transaction is Successful";
                }
                else
                {
                    cout<<"!! Enter Valid PIN";
                }
            }
        }
    }
}

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    }
    else
    {
        cout<<"The Account number Doesn ot Exist:";
    }
}
void viewbal()
{
    cout<<"Enter your Account Number\n";
    cin>>account;
    cout<<"Enter your ATM PIN\n";
    cin>>PIN;
    if(account==accnumber)
    {
        if(PIN==Pin)
        {
            tot_bal = tot_bal + amount;
            cout << "\nTotal balance is: " << tot_bal;
        }
        else
        {
            cout<<"!! Enter Valid PIN";
        }
    }
    else
    {
        cout<<"The Account number Does not Exist:";
    }
}
void withdrawl()
{
    int a, avail_balance;
    cout<<"Enter your Account Number\n";
    cin>>account;
    cout<<"Enter your ATM PIN\n";
    cin>>PIN;
    if(account==accnumber)
    {
        if(PIN==Pin)
        {
            cout << "Enter amount to withdraw\n";
            cin >> a;
            avail_balance = tot_bal - a;
            cout << "Available Balance is" << avail_balance;
            cout<<"Your Transaction is Successful";
        }
        else
        {
            cout<<"!! Enter Valid PIN";
        }
    }
    else
    {
        cout<<"The Account number Does not Exist:";
    }
}
void changePIN()
{
    int old_pin,new_pin,cnfm_pin;
    int a, avail_balance;
    cout<<"Enter your Account Number\n";
    cin>>account;
    cout<<"Enter your ATM PIN\n";

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        cin>>PIN;
        if(account==accnumber)
        {
            if(PIN==Pin)
            {
                cout<<"Enter your old PIN\n";
                cin>>old_pin;
                if(PIN==old_pin)
                {
                    cout<<"Enter your New PIN\n";
                    cin>>new_pin;
                    cout<<"Confirm your New PIN\n";
                    cin>>cnfm_pin;
                    if(new_pin==cnfm_pin)
                    {
                        cout<<"Your PIN has been Successfully Changed";
                    }
                    else
                    {
                        cout<<"Your Request to Change PIN Failed";
                    }
                }
            }
            else
            {
                cout<<"Your Request to Change PIN Failed";
            }
        }
        else
        {
            cout<<"!! Enter Valid PIN";
        }
    }
    else
    {
        cout<<"The Account number Does not Exist:";
    }
}

};
int main()
{
    ATM b;
    int choice;
    cout<<"Provide INFO to WORK on this ATM\n\n";
    b.getdata();
    while (1) {
        cout << "\n~~~~~"
        << "~~~~~"
        << "~~~WELCOME~~~~~"
        << "~~~~~"
        << "~~~~~\n\n";
        cout << "Enter Your Choice\n";
        cout << "\t1. My Details\n";
        cout << "\t2. Balance Enquiry\n";
        cout << "\t3. Deposit Money\n";
        cout << "\t4. Change ATM PIN\n";
        cout << "\t5. Withdraw Money\n";
        cout << "\t6. Cancel\n";
        cin >> choice;
        switch (choice) {
            case 1:
                b.showdata();
                break;

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        case 2:
            b.viewbal();
            break;
        case 3:
            b.deposit();
            break;
        case 4:
            b.changePIN();
            break;
        case 5:
            b.withdrawl();
            break;
        case 6:
            exit(1);
            break;
        default:
            cout << "\nInvalid choice\n";
    }
}
```