

حقوق النشر محفوظة، أسعار الكورسات في المنصة هي أسعار رمزيه جدا، ارجو عدم نشر هذه الوثيقة لان نشرها سيمنعنا من الاستمرار في تقديم العلم للآخرين

ارجو عدم استخدام هذه الوثيقة من غير وجه حق لأنك ستحرم الاف الناس من التعلم

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```
#include <iostream>
#include <fstream>
#include <string>
#include <vector>
#include <iomanip>
using namespace std;
const string ClientsFileName = "Clients.txt";
struct sClient
    string AccountNumber;
    string PinCode;
    string Name;
    string Phone;
    double AccountBalance;
};
vector<string> SplitString(string S1, string Delim)
{
    vector<string> vString;
    short pos = 0;
    string sWord; // define a string variable
    // use find() function to get the position of the delimiters
    while ((pos = S1.find(Delim)) != std::string::npos)
        sWord = S1.substr(0, pos); // store the word
        if (sWord != "")
            vString.push_back(sWord);
        }
        S1.erase(0, pos + Delim.length());
    }
    if (S1 != "")
        vString.push_back(S1); // it adds last word of the string.
    return vString;
}
```



```
sClient ConvertLinetoRecord(string Line, string Seperator =
"#//#")
{
    sClient Client;
    vector<string> vClientData;
    vClientData = SplitString(Line, Seperator);
    Client.AccountNumber = vClientData[0];
    Client.PinCode = vClientData[1];
    Client.Name = vClientData[2];
    Client.Phone = vClientData[3];
    Client.AccountBalance = stod(vClientData[4]);//cast string to
double
    return Client;
}
vector <sClient> LoadCleintsDataFromFile(string FileName)
{
    vector <sClient> vClients;
    fstream MyFile;
    MyFile.open(FileName, ios::in);//read Mode
    if (MyFile.is_open())
    {
        string Line;
        sClient Client;
        while (getline(MyFile, Line))
        {
            Client = ConvertLinetoRecord(Line);
            vClients.push_back(Client);
        }
        MyFile.close();
    }
    return vClients;
}
```





```
void PrintClientRecord(sClient Client)
  cout << " " << setw(15) << left << Client.AccountNumber;</pre>
  cout << " " << setw(10) << left << Client.PinCode;</pre>
  cout << " " << setw(40) << left << Client.Name;</pre>
  cout << "| " << setw(12) << left << Client.AccountBalance;</pre>
}
void PrintAllClientsData(vector <sClient> vClients)
  cout << "\n\t\t\t\t\tClient List (" << vClients.size() << ")</pre>
Client(s).":
  cout <<
         _____
  cout << "_____\n" << endl;
  cout << "| " << left << setw(10) << "Pin Code";</pre>
  cout << "| " << left << setw(12) << "Balance":</pre>
  cout <<
"\n_____
          _____
  cout << "_____\n" << endl;</pre>
  for (sClient Client : vClients)
     PrintClientRecord(Client);
     cout << endl;</pre>
  }
  cout <<
        _____
  cout << "_____\n" << endl;
}
```





```
int main()
{
    vector <sClient> vClients =
LoadCleintsDataFromFile(ClientsFileName);
    PrintAllClientsData(vClients);
    system("pause>0");
    return 0;
}
```