

```

1  #include <iostream>
2  #include <fstream>
3  #include <string>
4
5  using namespace std;
6
7  class Customer{
8
9  public:
10
11  Customer();
12  friend ifstream& operator >>(ifstream &masterFile, Customer& info);
13  int getNum(){return number;}
14  string getName(){return name;}
15  double getBal(){return previousBalance;}
16
17  private:
18
19  int number;
20  string name;
21  double previousBalance;
22
23  };
24  Customer::Customer(){
25  number=20;
26  name = "";
27  previousBalance = 0.00;
28  }
29  ifstream & operator >> (ifstream &masterFile, Customer &info){
30
31  masterFile>>info.number>>info.name>>info.previousBalance;
32  return masterFile;
33
34  }
35  class Record{
36
37  public:
38
39  Record();
40
41  friend ifstream& operator >>(ifstream &transactionFile, Record& accounts);
42  int getCustNumb(){return custNumb;}
43  int getTransNumber(){return transNumb;}
44  double getAmount(){return (price*quantity);}
45  char getTransType(){return transType;}
46
47  private:
48
49  int custNumb;
50  int transNumb;
51  char transType;
52  string object;
53  double price;
54  int quantity;
55
56  };
57  Record::Record(){
58
59  custNumb=transNumb=quantity = 0;
60  transType='a';
61  object=" ";
62  price=0.00;
63
64  }
65  ifstream & operator >>(ifstream &transactionFile, Record &accounts){
66

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67 transactionFile>> accounts.custNumb>>accounts.transNumb>> accounts.transType;
68 if (accounts.transType=='o'){
69     transactionFile>>accounts.object>>accounts.price>>accounts.quantity;
70 }
71 else{
72     transactionFile>>accounts.price;
73     accounts.quantity = 1;
74 }
75 return transactionFile;
76 }
77
78
79 int main()
80 {
81     Record accounts;
82     Customer info;
83     double balance=0.00;
84     int checker=0;
85
86     ifstream transactionFile;
87     ifstream masterFile;
88     ofstream outfufFile("output.txt");
89     outfufFile.precision(9);
90
91     transactionFile.open("transfile.txt");
92
93     transactionFile>>accounts;
94
95     while (!transactionFile.eof()){
96
97         if(accounts.getCustNumb() != checker){
98
99             checker = accounts.getCustNumb();
100
101             masterFile.open("masterfile.txt");
102             masterFile>>info;
103
104             while(info.getNum() != accounts.getCustNumb())
105                 masterFile>>info;
106
107             balance = info.getBal();
108             masterFile.close();
109
110             outfufFile<<"CUSTOMER: "<<info.getName()<<" "
111             <<"\tCUSTOMER ID: "<<info.getNum()
112             <<"\n\n\t\t\tPREVIOUS BALANCE $"<<info.getBal()<<"\n\n";
113         }
114
115         while(accounts.getCustNumb() == checker){
116
117             outfufFile<<accounts.getTransNumber()<<"\t";
118
119             if(accounts.getTransType() == 'o'){
120
121                 outfufFile<<"ITEM ORDERED\t$"<<accounts.getAmount()<<endl;
122                 balance= balance + accounts.getAmount();
123             }
124
125             else{
126
127                 outfufFile<<"PAYEMENT\t$"<<accounts.getAmount()<<endl;
128                 balance = balance - accounts.getAmount();
129             }
130             transactionFile>>accounts;
131         }
132     }

```

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133         outpufFile<<"\n\t\t\tBalance Due: $"<<balance<<"\n\n";
134
135     }
136
137     return 0;
138 }
```