```
2
     #include<iostream>
 3
     #include<fstream>
 4
     using namespace std;
 5
     class engineering_stuff
 6
 7
     public:
 8
         char name[10];
 9
          int price;
10
         void admin input()
11
12
13
             cout<<"ENTER THE NAME OF STUFF : ";</pre>
14
             cin>>name;
15
             cout<<"ENTER THE PRICE OF STUFF : ";
16
             cin>>price;
17
          }
18
19
     class admin: public engineering stuff
20
21
     public:
22
         void display()
23
               cout.width(20);
24
25
               cout << name;
26
               cout.width(18);
27
              cout<<pre>cout<<end1;</pre>
28
29
         }
30
31
32
     class user:public admin
33
34
     public:
3.5
         int quantity, total_price;
36
          string userName, address, mob;
37
         void fdisplay()
38
39
              cout << "ENTER THE QUANTITY OF STUFF: :";
40
              cin>>quantity;
41
              total_price=admin::price*quantity;
42
              cout. width (55);
43
              cout<<admin::name;</pre>
44
              cout.width(15);
45
              cout<<quantity;</pre>
46
              cout.width(15);
47
              cout<<admin::price;</pre>
48
              cout.width(15);
49
              cout<<total_price<<endl;</pre>
50
51
52
          void user basic()
53
              cout<<"\t\t ENTER NAME : ";</pre>
54
55
              cin>>userName;
              cout<<"\t\t MOBILE NUMBER : ";</pre>
56
57
              cin>>mob;
58
59
         }
     };
60
61
62
     int main()
63
              int n,ch;
64
              int Gtotal=0,c,select;
6.5
66
              char address[100];
67
              user s[10];
68
      \mathbf{while}(1)
69
     {
              cout<<"\n\n\t1.ADMIN"<<endl;</pre>
70
              cout<<"\t2.USER"<<endl;
71
72
              cout<<"\t3.EXIT"<<endl;</pre>
73
              cout<<"\nENTER YOUR CHOICE:- ";</pre>
              cin>>ch;
74
75
76
        switch(ch)
77
78
79
          case 1:
80
81
              cout << "ENTER THE NUMBER OF STUFF: \n";
82
83
              cin>>n;
84
              ofstream file;
```

```
file.open("sumit.txt",ios::out);
8.5
86
              for (int i=0;i<n;i++)</pre>
87
88
               s[i].admin input();
89
               file.write((char*)&s[i],sizeof(&s));
90
91
              file.close();
92
                cout.width(50);
                cout.fill('*');
93
                94
                cout.fill(' ');
9.5
96
                cout<<"\t\tNAME\t"<<"\tPRICE\t\t"<<endl;</pre>
                                                cout<<"\t***************
97
98
            ifstream infile;
99
           infile.open("sumit.txt",ios::in);
              for (int i=0;i<n;i++)</pre>
100
101
102
                 infile.read((char*)&s[i], sizeof(&s));
103
                 s[i].display();
                 104
105
106
            infile.close();
107
              break;
108
        }
        case 2:
109
110
111
112
              s[0].user basic();
              cout<<"\t-----"<<end1;
113
              cout<<"\t\tSr. No.\t\tNAME\t"<<"\tPRICE\t\t"<<endl;</pre>
114
              cout<<"\t**********************
115
116
              ifstream infile;
              infile.open("sumit.txt",ios::in);
117
              for (int i=0; i < n; i++)</pre>
118
119
120
                 infile.read((char*)&s[i],sizeof(&s));
121
                 cout<<"\t\t"<<(i+1);
                 s[i].display();
122
                 123
124
                 if(i==(n-1))
125
126
                     cout<<"ENTER THE NO OF SELECTION : ";</pre>
127
                     cin>>select;
128
    129
                     cout<<"\t\t\t\t\t\t\t\t\t\t\t\QUANTITY \t PRICE \t\t TOTAL\t\t"<<end1;</pre>
130
    131
                     for(int j=0;j<select;j++)</pre>
132
133
                        cout<<"enter the serial number to select :";</pre>
134
                        cin>>c;
135
                        c=c-1;
                        s[c].fdisplay();
136
137
                        Gtotal=Gtotal+s[c].total price;
138
                        if(j==(select-1))
139
140
    cout<<"\t\t\t\t\t\t\t\t\t\t\t\end1;</pre>
141
                           cout<<"\t\t\t\t\t\t\t\t\t\t\t\t\TOTAL = "<<Gtotal<<endl;</pre>
142
    cout<<"\t\t\t\t\t\t\t\t\t\t\t\t\end;</pre>
143
                           cout<<"\n\n\t\t ENTER ADDRESS : ";</pre>
                           cin>>address;
144
145
                           cout.width(80);
                           cout<<"WE WILL SEND THE SHIPMENT SOON ON THE
146
    ADDRESS\n"<<address;
147
                           cout.width(80);
                           cout<<"THANK YOU FOR SHOPPING WITH US";</pre>
148
149
                        }
150
151
152
                     }
153
               }
154
             infile.close();
155
156
              break;
157
           }
158
        case 3:
159
           cout.width(100);
           cout<<"THANK YOU";</pre>
160
161
           return 0;
162
           break;
       }
163
```

```
164
165
166
   OUTPUT:
167
168
169
170
        1.ADMIN
        2.USER
3.EXIT
171
172
173
   ENTER YOUR CHOICE:- 1
174
175
   ENTER THE NUMBER OF STUFF:
176
177
   ENTER THE NAME OF STUFF : KEYBOARD
178
   ENTER THE PRICE OF STUFF: 450
179
   ENTER THE NAME OF STUFF : MOTHERBOARD
180
   ENTER THE PRICE OF STUFF : 3500
   181
         NAME
                     PRICE
182
        ***********
183
                         450
          KEYBOARD
184
        **************
185
        186
187
188
189
190
        1.ADMIN
191
        2.USER
192
        3.EXIT
193
194 ENTER YOUR CHOICE:- 2
        ENTER NAME : SUMIT
195
196
              MOBILE NUMBER: 7875656769
197
         -----DATA-----
            Sr. No. NAME
198
         ******************
199
200
             1
                 KEYBOARD 450
         _
*********************************
201
             2 MOTHERBOARD
202
                                     3500
203
   ENTER THE NO OF SELECTION : 2
204
205
    -----DATA-----
206
                                          QUANTITY
                                    NAME
   PRICE
              TOTAL
207
   208
   enter the serial number to select :1
209
   ENTER THE QUANTITY OF STUFF: :20
                                  KEYBOARD
                                                 20
210
    450
            9000
211
   enter the serial number to select :2
   ENTER THE QUANTITY OF STUFF: :2
212
213
                                MOTHERBOARD
             7000
214
   215
                                                         GRAND
   TOTAI = 16000
216
    ***************
217
218
               ENTER ADDRESS : PUNE
219
                          WE WILL SEND THE SHIPMENT SOON ON THE ADDRESS PUNE
220
221
                                 THANK YOU FOR SHOPPING WITH US
222
223
224
```