```
1: #include<iostream>
2: #include<string.h>
3: #include<fstream>
4: using namespace std;
5: class chalan
6: {
7:       int vehicle;
8:       char name[20];
9:       float price;
10:      public:
11:           Book()
12:           {
13:                vehicle=0;
14:                strcpy(name,"No Title"); //string.h
15:                price=0;
16:           }
17:           void setdata();
18:           void showdata();
19:           //file handling function fstream
20:           int storedata();
21:           void viewalldata();
22:           void searchdata(char*);
23:           void deletedata(char*);
24:           void updatedata(char*);
25:
26: };
27: void chalan::setdata()
28: {
29:      cout<<"Enter the Vehile no, Name and fine:- "<<endl;
30:      cin>>vehicle;
31:      cin.ignore();
32:      cin.getline(name,19);
33:      cin>>price;
34: }
35: void chalan::showdata()
36: {
37:      cout<<"Vehicle No:- "<<vehicle<<endl<<"Name:- "<<name<<endl<<"fine:- "<<price<<endl;
38: }
39: int chalan::storedata()
40: {
41:      if(vehicle==0&&price==0)
42:      {
43:           cout<<"\nData not inialize"<<endl;
44:           return 0;
45:      }
46:      else
47:      {
48:           ofstream fout;
49:           fout.open("chalan.txt",ios::app);
50:           fout.write((char*)this,sizeof(*this));
51:           fout.close();
52:      }
53: }
54: void chalan::viewalldata()
55: {
56:      ifstream fin;
57:      fin.open("chalan.txt",ios::in);
```

```
58:     if(!fin)
59:     {
60:         cout<<"\nfile is not found"<<endl;
61:     }
62:     else
63:     {
64:         fin.read((char*)this,sizeof(*this));  //Read Data
65:         while(!fin.eof())                     //End of file
66:         {
67:             showdata();
68:             cout<<endl;
69:             fin.read((char*)this,sizeof(*this));
70:         }
71:         fin.close();
72:     }
73: }
74: void chalan::searchdata(char*t)
75: {
76:     int count=0;
77:     ifstream fin;
78:     fin.open("Books.txt",ios::in);
79:     if(!fin)
80:     {
81:         cout<<"\nFile not found"<<endl;
82:     }
83:     else
84:     {
85:         fin.read((char*)this,sizeof(*this));
86:         while(!fin.eof())
87:         {
88:             if(!strcmp(t,this->name))
89:             {
90:                 showdata();
91:                 count++;
92:             }
93:             fin.read((char*)this,sizeof(*this));
94:         }
95:         if(count==0)
96:         {
97:             cout<<"Data not found"<<endl;
98:         }
99:         fin.close();
100:    }
101: }
102: void chalan::deletedata(char* t)
103: {
104:     ifstream fin;
105:     ofstream fout;
106:     fin.open("chalan.txt",ios::in);
107:     if(!fin)
108:     {
109:         cout<<"\nfile Not Exist"<<endl;
110:     }
111:     else
112:     {
113:         fout.open("Tempo.txt",ios::out);
114:         fin.read((char *)this,sizeof(*this));
```

```
115:            while(!fin.eof())
116:            {
117:                 if(strcmp(name,t))
118:                 {
119:                      fout.write((char*)this,sizeof(*this));
120:                 }
121:                 fin.read((char*)this,sizeof(*this));
122:            }
123:            fin.close();
124:            fout.close();
125:            remove("chalan.txt");
126:            rename("Tempo.txt","chalan.txt");
127:       }
128: }
129: void chalan::updatedata(char*t)
130: {
131:       fstream file;
132:       file.open("chalan.txt",ios::in|ios::out|ios::ate);
133:       file.seekg(0);
134:       file.read((char*)this,sizeof(*this));
135:       while(!file.eof())
136:       {
137:            if(!strcmp(t,name))
138:            {
139:                 setdata();
140:                 file.seekp(file.tellp()-sizeof(*this));
141:                      file.write((char*)this,sizeof(*this));
142:            }
143:                 file.read((char*)this,sizeof(*this));
144:
145:       }
146:       file.close();
147: }
148: int menu()
149: {
150:       //creat a menu
151:       int choice;
152:       cout<<"\t\t-------------------------";
153:       cout<<"\n\t\tchalan System"<<endl;
154:       cout<<"\t\t-------------------------";
155:       cout<<"\n==============================";
156:       cout<<"\n\n\n 1.Insert Data";
157:       cout<<"\n\n\n 2.Viewall Data";
158:       cout<<"\n\n\n 3.Search Data ";
159:       cout<<"\n\n\n 4.Delete Data";
160:       cout<<"\n\n\n 5.Update Data";
161:       cout<<"\n\n\n 6.Exit";
162:       cout<<"\n\n\tEnter your choice:- ";
163:       cout<<"\n\n============================\n";
164:       cin>>choice;
165:       return choice;
166: }
167: main()
168: {
169:       chalan b1;
170:       char name[20];
171:       while(1) //infinte loop
```

```
172:    {
173:        system("cls");
174:        switch(menu())
175:        {
176:            case 1:
177:                b1.setdata();
178:                b1.storedata();
179:                cout<<"Store Data Successfully..."<<endl;
180:                break;
181:            case 2:
182:                b1.viewalldata();
183:                break;
184:            case 3:
185:                cout<<"Enter the Title for Search Data"<<endl;
186:                cin.ignore();
187:                cin.getline(name,19);
188:                b1.searchdata(name);
189:                break;
190:            case 4:
191:                cout<<"Enter the title for Delete"<<endl;
192:                cin.ignore();
193:                cin.getline(name,19);
194:                b1.deletedata(name);
195:                break;
196:            case 5:
197:                cout<<"Enter the title for Update"<<endl;
198:                cin.ignore();
199:                cin.getline(name,19);
200:                b1.updatedata(name);
201:                break;
202:            case 6:
203:                cout<<"\nThankyou for using this application"<<endl;
204:                system("cls");
205:                exit(0);
206:                break;
207:                default:
208:                cout<<"Invalid Input"<<endl;
209:        }
210:        system("Pause");
211:    }
212:}
213:
214:
215:
216:
217:
218:
219:
220:
221:
222:
223:
224:
225:
226:
227:
```