

```

1  #include <iostream>
2  #include <iomanip>
3  #include <conio.h>
4  #include <stdlib.h>
5  #include <ctype.h>
6  #include "fileoperations.h"
7
8  using namespace std;
9
10 typedef Operations Datastructer;
11 Datastructer phonelist;
12
13 void print_list();
14 void add_record();
15 bool make_it(char choice);
16 void delete_record(int indexno);
17
18
19 int main(){
20     phonelist.create();
21     bool terminate = true;
22     char choice;
23     while (terminate){
24         print_list();
25         cin >> choice;
26         terminate = make_it(choice);
27     }
28     return EXIT_SUCCESS;
29 }
30
31 void print_list(){
32     system("cls");
33     cout << "Welcome to phonebook program" << endl
34         << "A: Add New Records" << endl
35         << "L: Print The List of Records" << endl
36         << "R: Remove a Record" << endl
37         << "E: Exit" << endl;
38     cout << "Please choose one of them {A,L,R,E} : ";
39
40 }
41 bool make_it(char choice){
42     bool finish = true;
43     switch (choice)
44     {
45     case 'A':case'a': add_record(); break;
46     case 'L':case'l': phonelist.list(); break;
47     case 'R':case'r': delete_record(choice); break;
48     case 'E':case'e': {
49         cout << "Are you sure want to exit ?(Y/N)" << endl;
50         cin >> choice;
51         if (choice == 'Y' || choice == 'y'){
52             finish = false;
53             phonelist.close();
54         }
55         break;
56     }
57
58     default:
59         cout << "Error. Invalid choice. Please choose again.";
60         break;
61     }
62
63     return finish;
64
65 }
66

```

```
67 void add_record(){
68     Phone_Record *newrecord = new Phone_Record;
69     newrecord->name = new char[NAME_LEN];
70     newrecord->telno = new char[TELNO_LEN];
71     cout << "Please enter the new rec info" << endl;
72     cout << "Name : ";
73     cin.ignore(1000, '\n');
74     cin.getline(newrecord->name, NAME_LEN);
75     cout << "Telno: ";
76     cin.getline(newrecord->telno, TELNO_LEN);
77     phonelist.add(newrecord);
78     cout << "Record has been added.";
79     getchar();
80
81 }
82
83 void delete_record(int indexno){
84     cout << "Please enter the index number of the record that you want to delete" << endl;
85     cin >> indexno;
86     phonelist.del(indexno);
87     cout << "Record has been deleted.";
88     getchar();
89 }
```