A company maintains employee information such as employee ID, name, designation, and salary. Allow the user to add or delete employee information. Display the information of a particular employee. If the employee does not exist, display an appropriate message. If the employee exists, display the employee details. Use an index sequential file to maintain the data.

```
#include<iostream>
#include<iomanip>
using namespace std;
#define max 10
// Structure of Employee
struct employee {
  string name;
  long int employee_id;
  string designation;
  int salary;
};
int num = -1;
// Array of Employees to store the
// data in the form of the Structure
// of the Array
employee emp[max];
// Function to insert the data into
// given data type
void insert()
{
  if (num < max) {
```

```
num++;
    cout << "Enter the information of the Employee\n";</pre>
    cout << "Employee ID: ";</pre>
    cin >> emp[num].employee_id;
    cout << "Name: ";
    cin >> emp[num].name;
    cout << "Designation: ";</pre>
    cin >> emp[num].designation;
    cout<<"Salary: ";
    cin>>emp[num].salary;
  }
  else {
    cout << "Employee Table Full\n";</pre>
// Function to delete record at index i
void deleteIndex(int i)
  for (int j = i; j < num; j++) {
    emp[j].name = emp[j + 1].name;
    emp[j].employee_id = emp[j + 1].employee_id;
    emp[j].designation = emp[j + 1].designation;
    emp[j].salary = emp[j +1].salary;
  }
  return;
```

}

}

{

```
}
void displayAllRecords(){
  if(num == -1){
    cout<<"No records present!\n";</pre>
    return;
  }
  else{
cout<<endl<<setw(5)<<"ID"<<setw(10)<<"NAME"<<setw(18)<<"DESIGNATION"<<setw(10)<<"SALAR
Y\n";
    for(int i=0; i<num+1; i++){
cout<<setw(5)<<emp[i].employee_id<<setw(10)<<emp[i].name<<setw(18)<<emp[i].designation<<se
tw(10)<<emp[i].salary<<endl;
    }
  }
}
// Function to delete record
void deleteRecord()
{
  int employee_id;
  cout << "Enter the Employee ID to Delete Record: ";
  cin >> employee_id;
  for (int i = 0; i < num+1; i++) {
    if (emp[i].employee_id == employee_id) {
      deleteIndex(i);
      num--;
      break;
    }
```

```
}
}
void searchRecord()
{
  int employee_id;
  cout << "Enter the Employee ID to Search Record: ";
  cin >> employee_id;
  for (int i = 0; i < num+1; i++) {
    // If the data is found
    if (emp[i].employee_id == employee_id) {
cout<<endl<<setw(5)<<"ID"<<setw(10)<<"NAME"<<setw(18)<<"DESIGNATION"<<setw(10)<<"SALAR
Y\n";
cout<<setw(5)<<emp[i].employee_id<<setw(10)<<emp[i].name<<setw(18)<<emp[i].designation<<se
tw(10)<<emp[i].salary<<endl;
      return;
    }
  }
  cout<<"Employee record not found.\n";</pre>
}
int main()
{
  int option = 0;
  while(option != 5){
    cout << "\n---- Employee Management System ----\n";</pre>
    //cout << "Available Options:\n";
    cout << "1. Insert New Record\n";</pre>
```

```
cout << "2. Display all Records\n";</pre>
cout << "3. Delete Record\n";</pre>
cout << "4. Search Record by Employee ID\n";</pre>
cout << "5. Exit\n";
cout<<"Enter your choice: ";</pre>
cin >> option;
switch(option){
  case 1:
    insert();
    break;
  case 2:
    displayAllRecords();
    break;
  case 3:
    deleteRecord();
    break;
  case 4:
    searchRecord();
    break;
  case 5:
    cout<<"\n***** You have exited *****\n";
    break;
  default:
    cout<<"Enter valid option!\n";</pre>
    break;
}
```

```
}
return 0;
}
```

## // OUTPUT

```
pllab0112@pllab0112-ThinkCentre-M70s: ~/Documents/nmie...
                                                             Q
pllab0112@pllab0112-ThinkCentre-M70s:~/Documents/nmiet/12$ g++ DSL12.cpp
pllab0112@pllab0112-ThinkCentre-M70s:~/Documents/nmiet/12$ ./a.out
----- Employee Management System -----
1. Insert New Record
2. Display all Records
3. Delete Record
4. Search Record by Employee ID
5. Exit
Enter your choice: 1
Enter the information of the Employee
Employee ID: 123
Name: John
Designation: HR
Salary: 900000
----- Employee Management System -----
1. Insert New Record
2. Display all Records
3. Delete Record
4. Search Record by Employee ID
5. Exit
Enter your choice: 2
   ΙD
           NAME
                       DESIGNATION
                                     SALARY
  123
           John
                                      900000
----- Employee Management System -----
1. Insert New Record
2. Display all Records
Delete Record
4. Search Record by Employee ID
5. Exit
Enter your choice: 5
***** You have exited *****
pllab0112@pllab0112-ThinkCentre-M70s:~/Documents/nmiet/12$
```