**AIM : Company maintains employee information as Employee ID, name, designation and salary. Allow user to add, delete information of employee. Display information of particular employee. If employee does not exist an appropriate message is displayed. If it is, then the system displays the employee details. Use index sequential file to maintain the data.**

**PROGRAM :**

#include<iostream>

#include<iomanip>

using namespace std;

#define max 10

struct employee{

    string name;

    long int employee\_id;

    string designation;

    int salary;

};

int num = -1;

employee emp[max];

void insert(){

    if(num < max){

        num++;

        cout<<"Enter the information of the Employee\n";

        cout<<"Employee ID: ";

        cin>>emp[num].employee\_id;

        cout<<"Name: ";

        cin>>emp[num].name;

        cout<<"Designation: ";

        cin>>emp[num].designation;

        cout<<"Salary: ";

        cin>>emp[num].salary;

    }

    else{

        cout<<"Employee Table Full\n";

    }

}

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";

        return;

    }else{

        cout<<endl<<setw(5)<<"ID"<<setw(10)<<"NAME"<<setw(18)<<"DESIGNATION"<<setw(10)<<"SALARY\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<<setw(10)<<emp[i].salary<<endl;

        }

    }

}

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(emp[i].employee\_id == employee\_id){

            cout<<endl<<setw(5)<<"ID"<<setw(10)<<"NAME"<<setw(18)<<"DESIGNATION"<<setw(10)<<"SALARY\n";

            cout<<setw(5)<<emp[i].employee\_id<<setw(10)<<emp[i].name<<setw(18)<<emp[i].designation<<setw(10)<<emp[i].salary<<endl;

            return;

        }

    }

    cout<<"Employee Record not found.\n";

}

int main(){

    int option = 0;

    while(option != 5){

        cout<<"\n----------Employee Management System ------------\n";

        cout<<"1. Insert New Record\n";

        cout<<"2. Display all Records\n";

        cout<<"3. Delete Record\n";

        cout<<"4. Search Record by Employee ID\n";

        cout<<"5. Exit\n";

        cout<<"Enter your choice : ";

        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 \*\*\*\*\*\*\*\*\*\*";

                break;

            default:

                cout<<"Enter valid option!\n";

                break;

        }

    }

    return 0;

}