PROGRAM :

```
#include<iostream>
#include<fstream>
#include<cstdio>
using namespace std;

class Employee {
  int employee_id;
  char name[50];
  char post[50];
  float salary;

public:
  void setData()
  {
    cout << "\nEnter Employee ID : ";
    cin >> employee_id;
    cout << "Enter Name of Employee : ";
    cin >> name;
    cout << "Enter Post of Employee : ";
    cin >> post;
    cout << "Enter Salary of Employee : ";
    cin >> salary;
  }

  void showData()
  {
    cout << endl;
    cout << "\n\tEmployee ID     : " << employee_id;
    cout << "\n\tEmployee Name   : " << name;
    cout << "\n\tEmployee Post   : " << post;
    cout << "\n\tEmployee Salary : " << salary;
    cout << endl;
  }

  int retemployee_id()
  {
    return employee_id;
  }
};
```

```
void write_record() {
    ofstream outFile;
    outFile.open("Employee.dat", ios::binary | ios::app);
    Employee obj;
    obj.setData();
    outFile.write((char*) &obj, sizeof(obj));
    outFile.close();
}

void display() {
    ifstream inFile;
    inFile.open("Employee.dat", ios::binary);
    Employee obj;
    while (inFile.read((char*) &obj, sizeof(obj))) {
        obj.showData();
    }
    inFile.close();
}

void search(int n) {
    ifstream inFile;
    inFile.open("Employee.dat", ios::binary);
    Employee obj;
    while (inFile.read((char*) &obj, sizeof(obj))) {
        if (obj.retemployee_id() == n) {
            obj.showData();
            break;
        }
    }
    inFile.close();
}

void delete_record(int n) {
    Employee obj;
    ifstream inFile;
    inFile.open("Employee.dat", ios::binary);
    ofstream outFile;
    outFile.open("temp.dat", ios::out | ios::binary);
    while (inFile.read((char*) &obj, sizeof(obj))) {
        if (obj.retemployee_id() != n) {
            outFile.write((char*) &obj, sizeof(obj));
        }
    }
```

```
inFile.close();
outFile.close();
remove("Employee.dat");
rename("temp.dat", "Employee.dat");

}
void modify_record(int n) {
  fstream file;
  file.open("Employee.dat", ios::in | ios::out);
  Employee obj;

  while (file.read((char*) &obj, sizeof(obj))) {
    if (obj.retemployee_id() == n) {
      cout << "\nEnter the new details of Employee :";
      obj.setData();
      long int pos = -1 * sizeof(obj);
      file.seekp(pos, ios::cur);
      file.write((char*) &obj, sizeof(obj));
    }
  }
  file.close();
}

int main()
{
  int ch;
  do
  {
    cout << "\n******** Menu ********";
    cout<<"\n  1.ADD Employee";
    cout<<"\n  2.Display Employee";
    cout<<"\n  3.Search Employee";
    cout<<"\n  4.Delete Employee";
    cout<<"\n  5.Modify Employee";
    cout<<"\n  6.Exit";
    cout << "\n\nEnter your choice : ";
    cin >> ch;

    switch (ch)
    {
      case 1:
        cout << "\nEnter number of records : "; //Store 4 records in file
```

```
            int n;
            cin >> n;
            for (int i = 0; i < n; i++)
              write_record();

            break;

         case 2:
            cout << "\nList of records : ";
            display();
            break;

         case 3: //Search record
            cout << "\nEnter Employee ID to be searched : ";
            int s;
            cin >> s;
            search(s);
            break;

         case 4:
            cout << "\nEnter Employee ID to be deleted : ";
            int d;
            cin >> d;
            delete_record(d);
            cout << "\nRecord Deleted !!";
            break;

         case 5: //Modify record
            cout << "\nEnter Employee ID to be modified : ";
            int m;
            cin >> m;
            modify_record(m);
            break;

         case 6:
            cout<<"\nThanks for using this Program !!";
            return 0;
      }
   } while (ch != 6);
}
```