**Practical GroupF\_24**

**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.

**Code:**

#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";

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";

}

}

// 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";

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;

}

}

}

// 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)<<"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";

}

// Driver Code

int main()

{

int option = 0;

while(option != 5){

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

//cout << "Available Options:\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 \*\*\*\*\*\n";

break;

default:

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

break;

}

}

return 0;

}