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**ROLL NO. :** A-61

**PRACTICAL NO. F2**

**CODE:**

#include <iostream>

#include <iomanip>

using namespace std;

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 0;

}

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 \*\*\*\*\*\n";

break;

}

default:

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

break;

}

}

return 0;

}

**OUTPUT:**

