#include <iostream>

#include <fstream>

#include <string>

using namespace std;

struct Employee{

int id;

string name;

string designation;

double salary;

};

void addEmployee()

{

Employee employee;

cout<<"Enter employee id :";

cin>>employee.id;

cout<<"Enter name : ";

cin>>employee.name;

cout<<"Enter designation : ";

cin>>employee.designation;

cout<<"Enter salary: ";

cin>>employee.salary;

ofstream file("employees.txt",ios::app);

file<<employee.id<<" "<<employee.name<<" "<<employee.designation<<" "<<employee.salary<<endl;

file.close();

}

void delEmployee()

{

int id;

cout<<"Enter the ID of the employee to be deleted :";

cin>>id;

ifstream file("employees.txt");

ofstream temp ("temp.txt");

Employee employee;

bool found=false;

while(file>>employee.id>>employee.name>>employee.designation>>employee.salary)

{

if (employee.id!=id)

{

temp<<employee.id<<" "<<employee.name<<" "<<employee.designation<<" "<<employee.salary<<endl;

}

else

{

found=true;

}

}

file.close();

temp.close();

remove("employees.txt");

rename("temp.txt","employees.txt");

if (found)

{

cout<<"Employee deleted successfully."<<endl;

}

else

{

cout<<"Employee not found."<<endl;

}

}

void displayEmployee()

{

int id;

cout << "Enter the ID of the employee to display: ";

cin >> id;

ifstream file("employees.txt");

Employee employee;

bool found = false;

while (file >> employee.id >> employee.name >> employee.designation >> employee.salary)

{

if (employee.id == id)

{

found = true;

cout << "ID: " << employee.id << endl;

cout << "Name: " << employee.name << endl;

cout << "Designation: " << employee.designation << endl;

cout << "Salary: " << employee.salary << endl;

break;

}

}

file.close();

if (!found)

{

cout << "Employee not found." << endl;

}

}

int main(){

int choice;

do

{

cout << "1. Add employee" << endl;

cout << "2. Delete employee" << endl;

cout << "3. Display employee" << endl;

cout << "4. Exit" << endl;

cout << "Enter your choice: ";

cin >> choice;

switch (choice)

{

case 1:

addEmployee();

break;

case 2:

delEmployee();

break;

case 3:

displayEmployee();

break;

case 4:

cout<<"Thank you for using the program!";

break;

default:

cout << "Invalid choice." << endl;

}

} while (choice != 4);

return 0;

}

Ouput:

1. Add employee

2. Delete employee

3. Display employee

4. Exit

Enter your choice: 1

Enter employee id :123

Enter name : Abhinandan

Enter designation : CEO

Enter salary: 1000000

1. Add employee

2. Delete employee

3. Display employee

4. Exit

Enter your choice: 1

Enter employee id :456

Enter name : Rahul

Enter designation : HR

Enter salary: 500000

1. Add employee

2. Delete employee

3. Display employee

4. Exit

Enter your choice: 3

Enter the ID of the employee to display: 123

ID: 123

Name: Abhinandan

Designation: CEO

Salary: 1e+06

1. Add employee

2. Delete employee

3. Display employee

4. Exit

Enter your choice: 2

Enter the ID of the employee to be deleted :456

Employee deleted successfully.

1. Add employee

2. Delete employee

3. Display employee

4. Exit

Enter your choice: 3

Enter the ID of the employee to display: 456

Employee not found.

1. Add employee

2. Delete employee

3. Display employee

4. Exit

Enter your choice: 4

Thank you for using the program!