#include<iostream>

#include<fstream>

#include<stdio.h>

#include<string.h>

#include<stdlib.h>

#include<conio.h>

using namespace std;

const int maxrow = 10;

string EmpName[maxrow]={};

string EmpId[maxrow]={};

void OpenFile()

{

string line;

ifstream myfile("E:\\employee.txt");

if(myfile.is\_open())

{

int x=0;

while(getline(myfile,line))

{

int l=line.length();

EmpId[x]=line.substr(0,3);

// EmpName[x]=line.substr(4,1,-4);

x++;

}

}

else

{

cout<<"Unable to open the file"<<endl;

}

}

void AddRecord()

{

char name[50];

char empno[5];

cin.ignore(); //to clear the characters from input buffer

cout<<"Employee Id..:";

cin.getline(empno,5);

cout<<"Employee Name..:";

cin.getline(name,50);

for(int x=0;x<maxrow;x++)

{

if(EmpId[x] =="\0") //if array is empty following will be loaded

{

EmpId[x]=empno;

EmpName[x]=name;

break;

}

}

}

void ListRecord()

{

system("CLS"); // to clear the screen

cout<<"Current Records"<<endl;

cout<<"==========================================="<<endl;

int counter = 0;

cout<<"No. | ID | NAME "<<endl<<"---------------------------------------\n";

for(int x=0;x<maxrow;x++)

{

if(EmpId[x]!="\0")

{

counter++;

cout<<" " <<counter <<" " << EmpId[x] <<" "<< EmpName[x] << endl;

//break;

}

}

if(counter==0)

{

cout<<"No records to display"<<endl;

}

cout<<"----------------------------------------"<<endl;

}

void searchRecord(string search)

{

system("CLS");

cout<<"Current Record"<<endl;

cout<<"======================================"<<endl;

int counter=0;

for(int x=0;x<maxrow;x++)

{

if(EmpId[x]==search)

{

counter++;

cout<<" " <<counter <<" " <<EmpId[x] <<" "<<EmpName[x] << endl;

break;

}

}

if(counter==0)

{

cout<<"No records found.."<<endl;

}

cout<<"----------------------------------";

}

void DeleteRecord(string search)

{

int counter = 0;

for (int x=0;x<maxrow;x++)

{

if (EmpId[x]==search)

{

counter++;

EmpName[x]="";

EmpId[x]="";

cout<<"Successfully deleted.."<<endl;

break;

}

}

if (counter==0)

{

cout<<"ID Number does not exist!!";

}

}

void SaveToFile()

{

ofstream myfile;

myfile.open("E:\\employee.txt");

for(int x=0;x<maxrow;x++)

{

if (EmpId[x]=="\0") //there is no data then terminate the loop

{

break;

}

else

{

myfile<< EmpId[x] + " , " + EmpName[x] <<endl;

}

}

}

int main()

{

string eId;

cout<<"Menu";

int option;

system("CLS");

OpenFile();

do{

cout<<"1.Create"<<endl;

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

cout<<"3.Search"<<endl;

cout<<"4.Display"<<endl;

cout<<"5.Exit"<<endl;

cout<<"======================================"<<endl;

cout<<"Select any option";

cin>>option;

switch(option)

{

case 1:AddRecord();

system("CLS");

break;

case 2:

cin.ignore();

cout<<"Delete by ID >>";

getline(cin,eId);

DeleteRecord(eId);

cin.ignore();

system("CLS");

break;

case 3:

cin.ignore();

cout<<"Search by Id >>:";

getline(cin,eId);

searchRecord(eId);

break;

case 4:ListRecord();

break;

case 5:SaveToFile();

//cout<<"Exit..Saving to file!!"<<endl;

}

}while (option!=5);

SaveToFile();

cout<<"Exit..Saving to file!!"<<endl;

return 0;

}