#include <iostream>

#include <fstream>

#include <string>

using namespace std;

class Student{

private:

int rollNumber;

string name;

string division ;

string address;

public:

Student(int roll , string& n , string& div , string& addr){

rollNumber = roll;

name = n ;

division = div ;

address = addr;

}

void display(){

cout << "ROll number " << rollNumber << endl;

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

cout << "Division: " << division << endl;

cout << "Address: " << address << endl;

}

};

void addStudent(){

ofstream file("student\_info.txt", ios::app);

int roll ;

string name , div , addr;

cout << "NEter the roll number";

cin >> roll;

cout << "Enter Name: ";

cin >> name;

cout << "Enter Division: ";

cin >> div;

cout << "Enter Address: ";

cin >> addr;

Student student(roll , name , div , addr);

file << student.display();

file.close();

}

//delete ka dekh lena ek bar

void deleteStudent(){

int rollNumber ;

cout << "Enter roll number of student to delete";

cin >> rollNumber;

ifstream infile("student\_info.txt");

ofstream outfile("temp.txt");

int roll;

string name , div , addr;

bool found = false ;

while(infile >> roll >> name >> divv >> addr){

if(roll != rollNumber){

outfile << roll << " " << name " " << div << " " << addr << endl;

}

else

found = true;

}

}

infile.close();

outfile.close();

remove("student\_info.txt");

rename("temp.txt", "student\_info.txt");

if(!found){

cout << "student record with roll number " << rollNumber << "not found ";

}

else{

cout << "student record delete ";

}

void displayStudent(){

int rollNumber;

cout << "ENter roll number of student to display" ;

cin >> rollNumber;

ifstream file("student\_info.txt");

int roll ;

string name , div, addr;

bool found = false ;

while (file >> roll >> name >> div >> addr){

if(roll == rollNumber){

cout << "Student Details :: " << endl;

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

cout << "Roll Number: " << roll << endl;

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

cout << "Division: " << div << endl;

cout << "Address: " << addr << endl;

found = true;

break

}

}

file.close();

if(!found){

cout << "student record with roll number "<< rollNumber << "not found" ;

}

}

int main (){

int choice ;

do{

cout << "\n1. Add student\n2. Delete Student\n3. Display Student\n4. Exit\nEnter your choice: ";

cin >> choice;

switch(choice);

case 1 :

addStudent();

break;

case 2:

deleteStudent();

break;

case 3:

displayStudent();

break;

case 4:

cout << "Exiting program." << endl;

break;

default:

cout << "Invalid choice. Please enter a valid option." << endl;

break;

}

} while (choice != 4);

return 0;

}

//delete ka dekh lena ek bar

void deleteStudent(){

int rollNumber ;

cout << "Enter roll number of student to delete";

cin >> rollNumber;

ifstream infile("student\_info.txt");

ofstream outfile("temp.txt");

int roll;

string name , div , addr;

bool found = false ;

while(infile >> roll >> name >> divv >> addr){

if(roll != rollNumber){

outfile << roll << " " << name " " << div << " " << addr << endl;

}

else

found = true;

}

}

infile.close();

outfile.close();

remove("student\_info.txt");

rename("temp.txt", "student\_info.txt");

if(!found){

cout << "student record with roll number " << rollNumber << "not found ";

}

else{

cout << "student record delete ";

}

\*/