#include<iostream>

#include<stdlib.h>

#include<fstream>

#include<string.h>

#include<iomanip>

using namespace std;

class student

{

string name,div,address;

int roll;

public:

void getdata();

void displayAll();

void insert\_record();

void delete\_record();

void search\_record();

};

void student::getdata()

{

cout<<"\nEnter Roll No, Division, Name and Address of Student= ";

cin>>roll>>div>>name>>address;

}

void student::insert\_record()

{

fstream out;

student \*s1;

s1=new student;

out.open("Record11.txt",ios::app|ios::binary);

s1->getdata();

out.write((char \*)&s1,sizeof(s1));

out.close();

}

void student::displayAll()

{

fstream out;

student \*s2;

s2=new student;

out.open("Record11.txt",ios::in|ios::binary);

cout<<"\nThe Contents of file are.......\n\n";

cout<<"\nROLL"<<setw(15)<<"Division"<<setw(15)<<"NAME"<<setw(15)<<"ADDRESS\n";

while(out.read((char\*)&s2,sizeof(s2)))

{

cout<<"\n"<<s2->roll<<setw(15)<<s2->div<<setw(15)<<s2->name<<setw(15)<<s2->address;

}

cout<<"\n";

out.close();

}

void student::delete\_record()

{

fstream out,temp;

student \*s2;

int item;

s2=new student;

out.open("Record11.txt",ios::in|ios::binary);

temp.open("temp.txt",ios::out|ios::binary);

cout<<"\nEnter Roll\_No :";

cin>>item;

while(out.read((char\*)&s2,sizeof(s2)))

{

if(s2->roll!=item)

{

temp.write((char \*)&s2,sizeof(s2));

}

}

out.close();

temp.close();

remove("Record11.txt");

rename("temp.txt","Record11.txt");

}

void student::search\_record()

{

int item,flag=0;

student \*s2;

fstream out;

out.open("Record11.txt",ios::in|ios::binary);

s2=new student;

cout<<"\nEnter Roll\_No :";

cin>>item;

while(out.read((char\*)&s2,sizeof(s2)))

{

if(s2->roll==item)

{

cout<<"\n Record is Present in the File....\n ";

cout<<"\n"<<s2->roll<<"\t"<<s2->div<<"\t"<<s2->name<<"\t"<<s2->address;

flag=1;

break;

}

}

if(flag==0)

cout<<endl<<"Sorry .No such Record Present"<<endl;

out.close();

}

int main()

{

student t1;

int ch;

fstream out;

out.open("Record11.txt",ios::out);

out.close();

while(1)

{

cout<<"\n\*\*\* SEQUENTIAL ACCESS FILE PROGRAM USING C++ \*\*\*\* \n\n";

cout<<"\n1.INSERT RECORD\n2.DISPLAY All Records \n3.SEARCH\n4.Delete\n5.EXIT.";

cout<<"\nEnter UR Choice : ";

cin >> ch;

switch(ch)

{

case 1:

t1.insert\_record();

cout<<"\n\nRecord is Inserted..\n\n";

break;

case 2:

t1.displayAll();

break;

case 3:

t1.search\_record();

break;

case 4:

t1.delete\_record();

break;

case 5:

exit(0);

}

}

return 0;

}