[**\\Implementaion**](file:///\\Implementaion) **of Sequential file**

#include<iostream>

#include<fstream>

using namespace std;

struct student

{

int rn;

char div;

char name[20], adr[20];

};

class File

{

char fname[20];

public :

void create();

void display();

void add();

void Delet(int rn);

void search(int rn);

};

int main()

{

int choice, rn;

File obj;

do

{

cout<<"Select operation from : 1. Create records 2. Display records 3. Add records 4. Removerecords 5. Search records 6. exit\n";

cin>>choice;

switch(choice)

{

case 1: obj.create();

break;

case 2: obj.display();

break;

case 3: obj.add();

break;

case 4: cout<<"Enter student Roll No whose record to be deleted\n" ;

cin>>rn;

obj.Delet(rn);

break;

case 5: cout<<"Enter student Roll No whose record to be searched\n" ;

cin>>rn;

obj.search(rn);

break;

case 6: cout<<"Exit\n";

break;

default:cout<<"Wrong Choice\n";

break;

}

}while(choice!=6);

return 0;

}

void File :: create()

{

ofstream fp;

student s;

char option;

cout<<"Enter File name to be opened\n";

cin>>fname;

fp.open(fname);

do

{

cout<<"Enter student Roll No, Div, Name, Address\n";

cin>>s.rn>>s.div>>s.name>>s.adr;

fp.write((char\*)(&s),sizeof(s));

cout<<"Do you want to add more records\n";

cin>>option;

}while(option=='y');

fp.close();

}

void File :: display()

{

ifstream fp;

student s;

fp.open(fname);

cout<<"Roll No\tDiv\tName\tAddress\n";

fp.read((char\*)(&s),sizeof(s));

while(!fp.eof())

{

cout<<s.rn<<"\t"<<s.div<<"\t"<<s.name<<"\t"<<s.adr<<"\n";

fp.read((char\*)(&s),sizeof(s));

}

fp.close();

}

void File :: add()

{

fstream fp;

student s;

fp.open(fname, ios::app);

cout<<"Enter records to be added \n Enter Roll No\tDiv\tName\tAddress\n";

cin>>s.rn>>s.div>>s.name>>s.adr;

fp.write((char\*)(&s),sizeof(s));

fp.close();

}

void File :: search(int rn)

{

fstream fp;

student s;

int flag=0;

fp.open(fname);

fp.read((char\*)(&s),sizeof(s));

while(!fp.eof())

{

if(rn==s.rn)

{

flag=1;

break;

}

fp.read((char\*)(&s),sizeof(s));

}

if(flag==1)

cout<<s.rn<<"\t"<<s.div<<"\t"<<s.name<<"\t"<<s.adr<<"\n";

else

cout<<"Record not found\n";

fp.close();

}

void File :: Delet(int rn)

{

ifstream fp1;

ofstream fp2;

student s;

int flag=0;

fp1.open(fname);

fp2.open("temp.txt");

fp1.read((char\*)(&s),sizeof(s));

while(!fp1.eof())

{

if(rn==s.rn)

{

cout<<s.rn<<"\t"<<s.div<<"\t"<<s.name<<"\t"<<s.adr<<"\n";

flag=1;

}

else

fp2.write((char\*)(&s),sizeof(s));

fp1.read((char\*)(&s),sizeof(s));

}

if(flag==0)

cout<<"Record not found\n";

fp1.close();

fp2.close();

remove(fname);

rename("temp.txt", fname);

}