* **Code:**

#include <iostream>

#include <fstream>

#include <string.h>

using namespace std;

class student

{

typedef struct stud

{

int roll;

char name[10];

char div;

char add[10];

} stud;

stud rec;

public:

void create();

void display();

int search();

void Delete();

};

void student::create()

{

char ans;

ofstream fout;

fout.open("stud.dat", ios::out | ios::binary);

do

{

cout << "\n\tEnter Roll No of Student : ";

cin >> rec.roll;

cout << "\n\tEnter a Name of Student : ";

cin >> rec.name;

cout << "\n\tEnter a Division of Student : ";

cin >> rec.div;

cout << "\n\tEnter a Address of Student : ";

cin >> rec.add;

fout.write((char \*)&rec, sizeof(stud)) << flush;

cout << "\n\tDo You Want to Add More Records: ";

cin >> ans;

} while (ans == 'y' || ans == 'Y');

fout.close();

}

void student::display()

{

ifstream fin;

fin.open("stud.dat", ios::in | ios::binary);

fin.seekg(0, ios::beg);

cout << "\n\tThe Content of File are:\n";

cout << "\n\tRoll\tName\tDiv\tAddress";

while (fin.read((char \*)&rec, sizeof(stud)))

{

if (rec.roll != -1)

cout << "\n\t" << rec.roll << "\t" << rec.name << "\t" << rec.div << "\t" << rec.add;

}

fin.close();

}

int student::search()

{

int r, i = 0;

ifstream fin;

fin.open("stud.dat", ios::in | ios::binary);

fin.seekg(0, ios::beg);

cout << "\n\tEnter a Roll No: ";

cin >> r;

while (fin.read((char \*)&rec, sizeof(stud)))

{

if (rec.roll == r)

{

cout << "\n\tRecord Found...\n";

cout << "\n\tRoll\tName\tDiv\tAddress";

cout << "\n\t" << rec.roll << "\t" << rec.name << "\t" << rec.div << "\t" << rec.add;

return i;

}

i++;

}

fin.close();

return 0;

}

void student::Delete()

{

int pos;

pos = search();

fstream f;

f.open("stud.dat", ios::in | ios::out | ios::binary);

f.seekg(0, ios::beg);

if (pos == 0)

{

cout << "\n\tRecord Not Found";

return;

}

int offset = pos \* sizeof(stud);

f.seekp(offset);

rec.roll = -1;

strcpy(rec.name, "NULL");

rec.div = 'N';

strcpy(rec.add, "NULL");

f.write((char \*)&rec, sizeof(stud));

f.seekg(0);

f.close();

cout << "\n\tRecord Deleted";

}

int main()

{

student obj;

int ch, key;

char ans;

do

{

cout << "\n\t\*\*\*\*\* Student Information \*\*\*\*\*";

cout << "\n\t1. Create\n\t2. Display\n\t3. Delete\n\t4. Search\n\t5. Exit";

cout << "\n\t..... Enter Your Choice: ";

cin >> ch;

switch (ch)

{

case 1:

obj.create();

break;

case 2:

obj.display();

break;

case 3:

obj.Delete();

break;

case 4:

key = obj.search();

if (key == 0)

cout << "\n\tRecord Not Found...\n";

break;

case 5:

break;

}

cout << "\n\t..... Do You Want to Continue in Main Menu: ";

cin >> ans;

} while (ans == 'y' || ans == 'Y');

return 1;

}

* **Output:**



