

Assignment

Student Grades Database

Course obj. being tested: Classes, data abstraction, encapsulation, file I/O and search.

You are required to create a Student Grade Management Database for Highline Community College using <u>CLASSES</u>.

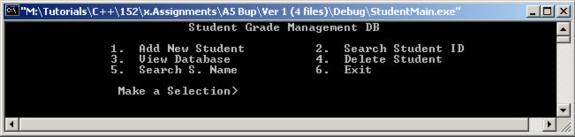
Following is the structure of the student CLASS.

```
class student {
    private:
        int Student_ID;
        float Grade;
        char StudName[20],Zip[6];
    public:
        void Add_Stud();
        void Search_ID();
        void Disp_All();
        void Del_Stud();
        void last_StudID();
        void SearchName();
};
```

The program must facilitate the following functionalities.

Screen Outputs :-

<u>Main Menu</u>



1. Add new student

🔍 "M:\Tutorials\C++\152\x.Assignments\A5 Bup\Ver 1 (4 files)\Debug\StudentMain.exe"	
Student ID: 1986 Student Name: Igor Glozman Student Grade: 3.8 Student Zip Code: 98034 Are you sure you want to add this record [Y/N]: y Record Updated Successfully	
Enter another record [Y/N]:	
•	

2. Search Student By Name (Ravinder Kang)

"M:\Tutorials\C++\152\x.Assignments\A5 Bup\Ver 1 (4 files)\Debug\StudentMain.exe"	
Student Found!	
ID #: 1983 Grade: 4.0 Zip Code: 98123	
Search Again [Y/N]:	-

3. Search Student By ID

"M:\Tutorials\C++\152\x.Assignments\A5 Bup\Ver 1 (4 files)\Debug\StudentMain.exe"	
Enter ID to be searched: 1981	<u>^</u>
Name: Viktor Josetf Grade: 3.9 Zip: 98198	
Search Again [Y/N]:	

4. View Database

.980	Ryan Molden	98001	
982	Ramone Hildreth	98001	
983	Ravinder Kang	98123	
984	Julio U'Chong	98119	
985	Phillip Morri	98001	
986	Igor Glozman	98034	
	<press any="" key<="" td=""><td>To Continue></td><td></td></press>	To Continue>	

5. Delete Student

M:\Tutorials\C++\152\x.Assignments\A5 Bup\Ver 1 (4 files)\Debug\StudentMain.exe"	<u> </u>
Enter ID # of Student to Delete: 1981 Student Deleted	
Delete another [Y/N]:	
<u> </u>	

Program Requirements

[0] Not implemented	[1] Not Working	[2] Partially Wo	orkin	g	[3] Fu	Illy Fund	ctional
1. Full Program Funct	tionality		[0]	[5]			
2. Use of OOP			[0]	[1]	[2]	[3]	
3. Read from file			[0]	[1]	[2]	[3]	
4. Write to file			[0]	[1]	[2]	[3]	
5. Student ID must be	generated automaticall	y (incremented)	[0]	[1]	[2]	[3]	
6. Add new Student			[0]	[1]	[2]	[3]	
7. View Database (all	records)		[0]	[1]	[2]	[3]	
8. Search by Student	ID		[0]	[1]	[2]	[3]	
9. Search by Student	Name		[0]	[1]	[2]	[3]	
10. Delete Student re	cord		[0]	[1]	[2]	[3]	
Annotation / Docum	entation						
[0] None [1] Inc	orrect [2] Partially Co	orrect [3] Perl	ect				
Annotation			[0]	[1]	[2]	[3]	
Consistency & neatne	ess (JSP / Word proce	ssed)	[0]	[1]	[2]	[3]	
Zip Disk clipped or in the front	a folder & this sheet in		[0]	[2]			
			40				
NAME :							