

بسم الله الرحمن الرحيم

Programming-1 Final Project

Students Management System

Develop a complete program using C-language for Students Management System for the university students.

There are two users of the system, the system admin and the student. Each user should have **a user name and password**.

When you run the program, the following start menu should appear:

Login Menu

A- System Admin
S- Student.
X- Exit.
What is Your Choice?

If the **system admin** logged into the system, the following menu should appear:

Admin Menu

1. Add new student.
2. Delete student.
3. Insert a student's mark for a course.
4. Search about a student by name.
5. Search about a student by ID.
6. Reports.
0. Logout.
What is Your Choice?

- The admin can add only **50 students at most**.
- **The student's information:** name, ID, address, birthdate, college, and registered courses (**5 courses at most**).
- You have to recognize the courses in your system (10 courses at least) and save them as an array of courses in your system.
- **Courses' information:** course name, ID, course mark, and number of students who registered this course.
- **In the reports part**, the admin can make the following reports as **text files**:
 1. A report of all students in the system.

2. A report of all courses in the system.
3. A report of all courses, which have been registered by students and the number of students who registered the course.
4. A report of all students in a specific college.

If the **student** logged into the system, the following menu should appear:

1. Register for a course.
 2. View Student's Information.
 3. Search about a course.
 4. Reports.
 0. Logout.
- What is Your Choice?

- The student can register for **five courses at most**.
- The student can only search about a course by ID.
- **In the reports part**, the student can make the following reports as **text files**:
 1. A report of all registered courses.
 2. A report of all available courses. (The same report in the admin part).
 3. A transcript of his marks with his courses.

Hints:

- The system must save the students information in a **binary file** so that it can restore the information to the next running time.
- Each student must develop his project individually.
- You must use all C programming concepts in your project such as **arrays, functions, control statements, structures, and files**.
- Any two copies will get **a big ZERO**.
- Do not hesitate to ask me for more clarification.
- Watch that the submission **deadline is 26/12/2012 at 11:55 PM**.
- Start early and do not waste time.
- You have to keep tracking of your email and Moodle account so that you can see **the project's discussion date**.

😊 Best Wishes 😊