

CSE310: Object Oriented Programming

Assignment02

Problem:

There are 20 students assigned to a course say CSE310. In order to organize module demonstrations, the class should be split into two groups with different time slots. Section 1 and section 2 will consist 11 & 9 students. The module lecturer decided to have a system design for students to sign up for one of the demonstrations. A student visiting the program should be able to register himself at first where he will submit his **name, student ID, email address and password**.

For example:

Name:

Robert Green

SID:

12345678

Email:

robert.green@gmail.com

Password:

Abcde12345

After registration, the student should be able to visit the login program where he will give his **Email & Password** for identification purposes.

Email:

robert.green@gmail.com

Password:

Abcde12345

For this lab, we won't be using asterisk "*" for the password field. Later, we will get to learn how to give asterisk instead of typing the actual characters of the password. If the student exists in the database, the program will display the different timeslots available for this module.

For example:

| | | | |
|---|------------|--------------------------|--------------------|
| 1 | Section-01 | Sunday: 12:30 pm 1:00 pm | 11 Seats Remaining |
| 2 | Section-02 | Sunday: 2:30 pm 4:00 pm | 9 Seats Remaining |

From these timeslots, the student has to choose a section preferable to him. The moment, a student chooses a section, the number of seats will be reduced by one. If there are no seats remaining in the chosen section, the program will prompt the student to choose another section by notifying the previous section has already reached its limit.

On the other hand, if the student doesn't exist in the database, the program will prompt the student to register first and then login. Then, it will again follow the registration procedure.

As a means of checking which students are registered in each section, you should also write a separate method that will allow the module lecturer to choose a section and, after checking the database, will display the list of students who are registered in that section.

For example, if the lecturer chooses section 01:

| Name | SID |
|--------------|----------|
| Robert Green | 12345678 |
| Bruce Wayne | 87654321 |
| Tony Stark | 12348765 |