“Warm-Up Project”  
**Student**  Class / **StudentRecord** Class

You are being asked to create a (Comparable) data class **Student** that will be used to maintain information for registration, and create a **StudentRecord** class that extends Student, and will include an ArrayList of Courses for each student.

For this project, your **Student** class will contain the student’s **firstName, lastName, IDNo.**   
The IDNo will be a String type, since it will not be used for “arithmetic” (at least no right away!)  
The IDNo will consist of the first initial of the student’s lastname, and a 6-digit code.

Your class should include a constructor that will accept the student’s name and ID.

You should include the necessary accessors and mutators, *equals, compareTo, toString.*  
*equals* will check the IDNo  
*compareTo* will be used to alphabetize students by their names (last, then first if needed)  
*toString* will return a “formatted” string for the student name and ID. (the format is up to you)

The StudentRecord class will have a separate toString method, but the ArrayList of courses will not be used in “equals” or “compareTo”.

After you compile the class, run a test to make sure that your class “works”. You may test the class using 4 students.

Example of students:  
Mary Doe 123  
John Smith 124  
John Smith 134  
Mary Smith 145 CS313, CS220, Mus201  
 - *then enter Mary Doe 123 again. (*the duplicate should show.)

You just want to make sure that greater than, less than, and equal all work correctly.

I suggest creating a text file for the students (so you don’t have to keep typing them in!)

(You may use Scanner and PrintWriter for your I/O files)

This class will be used in the semester-long program we will write this summer, so it is important that you begin working on it as soon as possible,

There will be a submit on Blackboard with instructions on how to submit.

**DUE DATE: Monday, July 12, 2020 at 12:00 PM**