

**University of Dhaka**  
**Dept. of Computer Science and Engineering**

**CSE-2112: Object Oriented Programming Lab (Spring, 2023)**  
**Lab Teachers: Dr. Muhammad Ibrahim and Mr. Md. Ashraful Islam**

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Write a program that reads the given text file input.txt. The file contains the following data of students: roll number (int), name (string), presence in theory class out of 16 classes, and presence in lab class out of 6 classes.

- A. Create a class named `Attendance_info` that contains these data. (Hint: use `split()` method for parsing the text.) In the main function, make an arraylist of this class to store all students' data. Then, print to the console the arraylist to show whether you have correctly fetched and stored the data.
- B. Now sort these student objects using `Collections.sort()` method. That is, you need to override `compare()` method in your class.  
Sort and print the students' data based on (a) attendance in theory class, and (b) attendance in lab class. Hint: you may use a static variable to indicate the choice ( 1 for theory class and 2 for lab class) and use that variable in the overridden compare method to indicate how to sort.
- C. Write in a file the sorted students data in descending order of their theory attendance.