KING SAUD UNIVERSITY
COLLEGE OF COMPUTER AND INFORMATION SCIENCES
Computer Science Department

CSC 111:Java Programming 1	**Cumulative Project**	**1nd Semester 1436-1437**

Project Assignment 4
Topic: Loops and Arrays

Assignment Submission: Starting on 08/11/2015 (during your lab)

Project Grading System:

The project assignment will follow the grading system as determined in the project coversheet.

4th Assignment Tasks:

Write a complete program for a system to manage the students in a course. Students' information include: student ID, student name, score, and academic advisor.

The program should enable a course clerk to complete the following tasks:

1. Add a student to the set of students in the course.
2. Remove a student from the set of students in the course.
3. Find the information about a student given her ID.
4. Return the total number of students for a specific academic advisor.
5. Find information about the lowest, average, highest score in the course.
6. Print all the students.
7. Print all the students with the same letter grade (such as A, B, C, D).
8. Count the total number of students in the course.

Assumptions:

- Student ID is unique; no two students may have the same ID.
- A student ID length is exactly 9. It contains only numbers from 0 to 9.
- A student email should be built from the student ID.
- A student's letter grade is NOT stored with the data. It is rather calculated.
- The number of students per course does not exceed 25.
- The menu should repeat as long as the user needs.

OUTPUT for option number 3:

a.

```
               King Saud University (KSU) – Riyadh
                        FALL 2015/2016
                      Student Information

Student number: 2
Student name:   Ali Ahmad
Student ID:   435404031
Email: 435404031@STUDENT.KSU.EDU.SA
Total score: 81
Grade: B
Academic advisor: Mona
```

Or

b.

```
NOT FOUND
```

General Notes:

- Choose suitable types for your data.
- Use suitable format to produce the above output.
- Use clear documentation.
- Use standards for naming constants and variables.
- Use meaningful variable names.
- Use clear indentation.
- Avoid redundancy.
- Validate user input.