**953212 DB SYS & DB SYS DESIGN 66/1**

**(Lab1) Dealing with traditional file with Java (5 points)**

FirstName\_\_\_\_\_\_\_\_\_\_\_\_\_\_Lastname\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_student ID\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

In this lab, you are going to apply your programming and problem-solving skills to generate small report from one given file, namely QS world University Ranking 2017.csv

Information about data are describes as follows:

**Part 1) Data Set Information and Attribute Information:**

1. (1 point) What are the meta data for the given data? please list all
2. (1 point) List all the data type of each attribute.

**Part 2) Basic descriptive with Java**

1. (1 point) Write a Java program to open, read, and close the given CSV file.
2. (1 point) Insert Chiang Mai University to the record in year 2017 and write to file as QS\_World University Ranking 2017\_out.csv

More info can be found here:

https://www.topuniversities.com/universities/chiang-mai-university

1. **[Extra credit ]** What problem have you found when you are dealing with the tradition database files? Explain in detail? (e.g., domain integrity, NULL values, etc.) (2 points)

**Submission**

Submit your Java source code Main.java, UniData.java to MSteam under Lab1.

You can write Part 1/Part 3 answer in your Main.java using comment.

Late submission -2