**Instructions**

**Student class**

A instance of the Student class must contain:

* the name of the student
* the student ID
* the list of grades for the student

The Student class must also have a way to compute the average grade for the student.

**School class**

The School class takes no arguments for the constructor.

It reads from the students.csv file and generate Student instances as required. The grades for the students are available in the file grades.csv.

A school instance must have methods for the following behaviours:

* find\_students\_by\_name: takes a string, returns a list containing all student instances whose name match the argument provided (regardless of case)
* find\_students\_by\_id: takes a string, returns a list containing all student instances whose student ID is equal to the argument provided
* print\_student\_list: prints a list on the screen showing all students with their name, student ID and average grade. The method takes optional parameters:
  + full: boolean - if True, display all the grades for each student too
  + sort: string - if it is one of "name", "id", or "average", sort the returned list by the relevant attribute

Add a short block of code in the "if \_\_name\_\_ == '\_\_main\_\_'" block of your program that demonstrates how it works.

Submit your files and a class diagram for your program.

**Grading**

* 4 marks for code quality and cleanliness (includes comments and docstrings)
* 4 marks for the School class
* 2 marks for the Student class