

Homework for Lecture 7

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Deadline: 2018/11/9

Submission link: <https://www.dropbox.com/request/ByGc8B3dm0IMKw41LI4>

Submission Format: A single zip file containing all codes with file name
"Homework_7_(yourname).zip"

1. Implement the Grade System using List

Starting from `grade_list.py`, build a grade system with following operations:

- Add (name, grade) into the database
- Output all records in the database with grades sorted
- Output the average grade and max grade of the database
- Find a record using name
- Find records using grade

Test input: `grade_list_input_and_output.txt`

2. Implement the Grade System using Dict

Starting from `grade_dict.py`, build a grade system with exactly the same operations as the pervious one.

Test input: `grade_list_input_and_output.txt`

3. Make Grade System using Module

Starting from `grade_module.py`, build a grade system with following functions:

- Add a limitation on the number of records
- Add (name, grade) into the database
- Remove a record from the database using name
- Output all records in the database with grades sorted
- Return a list containing the names with grade under 70
- Output the average grade and max grade of the database
- Find a record using name

Test script: `grade_module_test.py`

Test output: `grade_module_output.txt`