Python Sample

Assumptions:

* A course is not specific to a diploma (e.g a management course can be taken by CS students)
* Created a DB module for storing data
* DB module that can be modified to a database

Design Choice:

* Created a separate module for DB that stores all data and associations
* Created a main module for testing
* Created a separate module class for grades
* Created a module class for instructor/teacher
* Created a module class for course
* Created a module class for assignment
* Created a separate module class for student

Functionality:

* To add a new student to DB

DB.add\_student(student\_id, diploma\_id, student\_name)

* To add a instructor to DB

DB.add\_instructor(instructor\_id, instructor\_name)

* To add a course to DB

DB.add\_course(course\_id, course\_name, instructor\_id)

* To assign course to a student to the DB

stud.add\_course(c\_id)

* To add diploma to course

# DB.add\_diploma\_requirement(d\_id, c\_id)

* Add assignment to course

# course.add\_assignment(assignment\_number, title, description)

* Set assignment grade for a student

# stud.set\_assignment\_grade(c\_id, assign\_id, grade)

How to run a program:

* Cmd python main.py in terminal