Classes:

Student class – reads in a file that has student data like name, student\_id, email address, etc.

Section class – represent the different sections of a course(s) that an instructor may teach, has data like name of course, section number, gets students

Category class – contains the name of the category (i.e., quiz, homework, final exam, term project) the weight of the category, the name of each assignment, calculates each assignment converting any point score into a percentage, calculates the student's score for that category by computing the average

Final grade – calculates the final grade for each student

Main program – holds things like each student's overall grade in the course, outputs a file with the instructor's name, section, course taught and each student's overall grade in the course.

The program's main class is going to contain user input prompts asking the teacher to enter their section, and from there decide whether they want to add students, select a category and add grades to that category, or compute a final grade.