

Computer Science 010: Design and Implementation of Solutions to Computational Problems

Assignment 10

This is an assignment that may be done individually or as a pair. If you would like to work in a pair, you are responsible for finding a partner. If you work with a partner only one person should turn in an answer and the comments should indicate both people whose work it represents.

Program #1 (100%)

Assignment:

Implement 3 classes: a superclass `Person` and two classes, `Student` and `Professor`, that inherit from `Person`. A person has a name and a year of birth. A student has a major, and an instructor has a salary. Write the class declarations, the constructors, setters, getters and the `__repr__` method for all classes. You may include any additional private methods that you wish.

You should strive to have no duplicate code in any of your 3 classes and leverage the power of inheritance as much as possible.

You will turn in a 3 files, `person.py`, `student.py` and `professor.py` which contain **just the class definition**. You will have points taken off if your files have anything more than just the class definition.

You can test your classes by running the 3 test programs included with this assignment, `testPerson.py`, `testStudent.py`, `testProfessor.py`

By studying the test programs you should be able to figure out what the detailed specifications of the 3 classes should be.

