

Bonnie Light
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Intro to Programming with Python
Module 07
<https://github.com/bonnielight/IntroToProg-Python-Mod07.git>

Assignment 07 builds on module 6, adding the use of classes and objects.

Introduction

The purpose of this module is to practice defining classes (data, presentation, and processing), using constructors, and inheritance.

Objectives of the script

- Prior to offering the menu, read the contents of a .json file (must exist, and be populated with at least one complete entry)
- The code is divided into 4 classes: FileProcessor, IO, Person, Student
- Class FileProcessor was provided in starter file; methods within this class read data from a file and write data to file
- Class IO was provided in starter file: methods within this class output error messages, present the menu, input the user's menu choice, display student and course names, and accept data for new student course enrollment
- Class Person exists for purpose of acquiring student first name and student last name. To do this, first_name and last_name properties are added to the constructor. Getter and setter are then created for each.
- Class Student is also created. It inherits from the Person class. To do this, first_name and last_name data are passed to the Person constructor. Then an assignment to the course_name property is added with getter/setter.

Notes on individual program elements

- The functionality of this script builds on the Module04, 05, 06 scripts. In Module 7, the code uses additional techniques to further organize the code so it is more robust, more difficult to break, and easier to build on.

Lessons learned / Questions

- I followed the clear instructions provided and my script runs

Summary

Script was created and run in PyCharm and tested also on command line.