

Bogdan Kondratenko

13/11/2025

Foundations Of Python Programming

Assignment 05

Github link: <https://github.com/UWStudentAcc/IntroToProg-Python-Mod05>

The creation of Assignment05

Introduction

In this document I will do a step-by-step overview of the Assignment05.py file and its creation.

Creating the file

I began the process by opening the Assignment05-Starter.py file, then renaming it to Assignment05.py. This simplifies the process of working on the assignment, as it already has a prewritten header and starting code.

Setting up the script

In order to do what the assignment asks of, several things must be prepared beforehand. (Figure 1)

Of the 2 imports, _io allows the “file” variable to have a new value that allows it to perform better than when it was set to “None”. Then, json is imported to allow the script to interact with json files which is a requirement for the assignment.

```
import _io # Necessary for the file reference variable.  
import json # Needed for json file functionality  
# Define the Data Constants  
FILE_NAME: str = "Enrollments.json"  
  
# Define the Data Variables and constants  
student_first_name: str = '' # Holds the first name of a student entered by  
the user.  
student_last_name: str = '' # Holds the last name of a student entered by  
the user.  
course_name: str = '' # Holds the name of a course entered by the user.  
student_data: dict = {} # one row of student data  
students: list = [] # a table of student data  
file = _io.TextIOWrapper # Holds a reference to an opened file.  
menu_choice: str # Hold the choice made by the user.
```

(Figure 1) The script setup.

Main script body

Subtopic A:

Subtopic B:

Subtopic C:

Testing the script

Summary

In this document I did a walk-through of how I created Assignment05.py and what challenges I had along the way.