

Name: Max Mikos

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Course: Foundations of Programming, Python

GitHub Link: <https://github.com/searchstudy/IntroToProg-Python-Mod06>

Assignment 6 - Functions

Introduction

I was tasked with creating a Python script which uses functions, classes, and the separation of concerns programming pattern.

Topic

I had to add to the last code from Assignment 5 and used the starter code to help me get through the assignment. Also, since I've done assignment 7 before assignment 6, it was a lot easier working with classes now to catch up on it. This was a continuation of work on the code that dealt with the student registration data.

Summary

I was able to leverage classes and functions using the starter code and my homework from the 7th assignment since I've done it before this one, assignment #6. Some of the valuable insights of functions and classes are that we can utilize functions to isolate specific tasks, to use certain code for specific purposes over and over again, referring to the same block of code to execute it later in the program, instead of re-writing the same or similar code many times. This provides code reusability and allows it to be more like Lego blocks, in a way, more efficient.

When we have big tasks, they can be broken into smaller ones, with each function serving its purpose. Combining them together would make for one large mechanism that is efficient and modular, also highly customizable and much easier in terms of maintenance and updates in the future.

Using classes is similar in a way that we can reuse code and better organize it. We can reuse properties and have inherited code used again through the use of classes in our programs. It's a more effective approach overall and I found it challenging, but interesting and beneficial working with functions and classes!