

Jennifer Hernandez-Mora

June 3, 2024

Foundations of Python Programming

Github Assignment Repository: <https://github.com/jenhzm>

Assignment 6 - Functions

Introduction

In this document, I will outline my steps to continue building a Python script in Pycharm that displays a student's class registration information. This assignment builds on assignment 5 and the end goal is to display a message about a student's registration information for a course. This assignment primarily focuses on the use of classes and functions.

Organizing Code Format

Firstly, I opened the starter file made sure to have constants, and left the JSON information only. From reading the assignment, I know that this would require to use of classes and also knew that there would be a main body. This helped to distinguish what would be needed and what could be reused from the corresponding module notes.

Drafting the Code

I identified the file processor class and IO class. I then determined which functions went into which class, for example, input, and output went into the IO class. In this code, the use of the static method was also highly prevalent and helped to keep the code organized as well as avoid unneeded dependencies on class. (Figure 1)

```

@staticmethod
def output_error_messages(message: str, error: Exception = None):
    """ This function displays the a custom error messages to the user

    ChangeLog:
    Jennifer Hernandez-Mora, 06/06/2024, Created Class

    :return: None
    """
    print(message, end="\n\n")
    if error is not None:
        print("-- Technical Error Message -- ")
        print(error, error.__doc__, type(error), sep='\n')

```

Figure 1: Example of static method use

In the process of testing the code, I used “pass” to run the code and make sure portions of it were working before continuing to build on it. The use of error handling was also big for this code and I utilized it for menu options. When running the whole code, I was able to successfully get prompted to enter my desired menu options.

Summary

Overall, I built upon my previous code to continue to develop a program that can prompt a user to enter students’ course registration data. In this particular assignment, the use of classes was prevalent. Some big lessons taken from this assignment are that it is very important to indent and important to know how to edit code that you reuse. Additionally, I learned about presentation versus processing code which pertains to classes.