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9/8/2021

Fundamentals of Python

Assignment 8

GITHUB Repository: <https://github.com/bschlagel91/IntroToProg-Python-Mod07>

GITHUB Website: <https://github.com/bschlagel91/IntroToProg-Python-Mod07/blob/96bc7b11c69aff98a3314ecfd21ba43be44aec0c/index.md>

**Assignment 8 Documentation**

**Introduction**

This assignment took classes and functions that will create a list of products and the price of each product. There is a fileprocesser class that saves & exits, prints, and reads the text file. There is also an input and output class that takes many inputs from the user including a Y/N, 1-3, and just pressing the “enter” key to continue.

**Assignment 8: Classes and the many data processing powers**

I started this assignment by scanning the script to see what it was trying to do. It looks like it is separated by 2 major classes: file processing and input/output class. The first class dealt with the data processing. I added many blank variables that serve as properties in the docstring to help the user with the intent that would come up later in the script (figure 1).

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I went through and added code to add to list, read, and save the text file. I also edited the docstring slightly to match the variable names so that a third party would not get lost when scanning for the default docstring variables. This class mainly dealt with methods as I mentioned above (saving, reading, add to list). Figure 2 shows the docstring, the read, and the save method with its variables.

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Figure 2: fileprocessor class with docstring

Next I needed to edit the input output class. I started by identifying each input our output method that I wanted and listed their intent in the script as shown in figure 3.

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Figure 3: IO doctring

Then I went through the input and output class and wrote script that would help the main body take in data, and also output data (figure 4).

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Figure 4: input and output functions

Lastly, I wrote the code that would execute the classes I just created. I referenced the class.function to retrieve the appropriate commands within the script. I wrote a raise exception as well to make sure the user typed in a “y” or a “n” (figure 5)

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Figure 5: If statements with raise exception

**Summary**

In summary, creating classes helped me organize the script. Creating an input and output helped me run to the area of the code quickly if there was an error and it gives opportunity to create error handling. It also groups like functions to help organize the script. I know where I need to go if the file processing was erroring out or if the inputs were not taking correctly. Within the class there is further organization such as the fields, methods and so forth. Lastly, docstrings are very useful for a third party who is trying to interpret the code, and for a programming environment to analyze the docstring for any errors.