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Fundamentals of Python

Assignment 6

GITHUB: <https://github.com/bschlagel91/Summer2021UW>

**Assignment 6 Documentation**

**Introduction**

The assignment is to create a script that asks the user for a Task and its priority. Use a dictionary to hold “Task” and “Priority” but use a list to show rows of a table. Also, use classes and references to clean up the script and order it nicely.

**Assignment 6: Classes and Functions**

I started this assignment by editing the functions within the “Processor” Class. Within this class asks for the following functions: read from file, add data from file, remove data from file and write data to file. Here I brought parameters that I later write in the input/output class that brings in data based off of user inputs (Figure 1).

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Figure 1: 4 Functions needed to Process data

Then I wrote some input variables and “returned” the inputs for later use in the process class for remove and add inputs (Figure 2). The rest were written for me.

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Figure 2: Input/Output class and their functions

Then, we begin the portion of the code that starts doing all the work. We reference the code we wrote above by using the Class.Function(Parameter). The script reads the file, prints the data, shows the menu, and retrieves the menu option that the user inputs. If 1 is selected, then the user adds a new task. This brings up the input function found in the IO class and prompts the user for a Task and priority and adds it to the processor class. This then appends the data into a list (Figure 3)

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Figure 3: Read file data using class.function() format

The rest of the code runs through different numbers and performs similar task as the add to list. If 2 is selected, then the IO function is pulled, and the input is put into the processor function. If 3 is selected, then we write the data to the file after selecting y. If 4 is selected, we print the file. Last if 5 is selected, we break.

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Figure 4: Remove, print, write, and close file

**Summary**

In summary I used PyCharm and Command Prompt to run the Assignment 06 Starter. This opened the file to load any existing data then gave the user 5 options to choose from. View table, append to table, remove from table, write to text file, and finally close out of the file. This assignment asked to use dictionaries and lists to make a table. Additionally, we created functions for each of the 5 options, sometimes 2 per menu option. Typically, the functions either processed the data, or stored input data to be later used in the processing function. Two classes, one for processing and one for input/output.