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Foundations of Python Programming

Github: <https://github.com/jenhzm/Assignment08>

## **Assignment 8 - Creating Applications**

### **Introduction**

In this document, I will outline my steps to build a Python application for the collection of employee ratings. This assignment is a culmination of all that we have learned in this class and requires a menagerie of previous functions and concepts from previous assignments such as classes, error handling, and the use of JSON files.

### **Organizing Code Format**

As I have done with the previous assignments, I started by opening the Assignment 8 start file which at first glance looked like the work was mostly done. However, after having learned about the use of multiple modules, it made sense to separate the classes. I created a file for data classes, presentation classes, and processing classes as well as for the main code. The starter code contained much of what would be needed for the individual class files, so I copied and pasted those accordingly. For example, person and employee belonged in data classes, IO in presentation, and File processor in processing class.

### **Drafting the Code**

After categorizing my classes, I thought it would be easy to just enter “import” statements at the top of the new class files, however, I began to get errors. This is when I thought would be the perfect time to try the unit testing and build the testing files which were being asked for for this assignment.

For the testing files, I heavily relied upon the example code from module 8 which had testing codes for process, data, and presentation classes already. I began by changing variables as this assignment’s objective was different than the student example.

### **Summary**

For this assignment, I worked towards creating an application that would allow a user to enter an employee’s information. This was meant to be achieved via the use of classes, a JSON file, and other concepts and tools such as error handling. Although my code did not run as expected, I still learned a variety of lessons such as the use of unit testing. As I was working, I realized the importance of the use of multiple modules when working on a project as expansive as this one as I realized how quickly changes of names and other smaller details got lost amidst many lines of code.