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IT FDN 110 A Wi 24: Foundations Of Programming: Python
Assignment 05

Assignment 05 - Advanced Collections and Error Handling

Introduction

This assignment introduced the student to dictionaries, importing data in from a .json file, and custom error handling. .
The base of this week's code was the repeated option menu loop from the last few weeks, in which the user is presented four options- register a student, show current data, save data to a file, and exit the program.

Data Processing

Before starting the loop and prompting the user to choose one of the four options, this week's code opens and reads a pre-existing .json file. This data is automatically imported to a dictionary. If the specified .json file does not exist, an error is posted but the code continues with the loop and can create a file with the specified name if the user selects option 3.

Error warnings were created for the manual data input section (option 1). If the user enters any non-alphabetic data for first name or last name, a warning message will be posted.

Error warnings were also created for option 3 to warn the user an issue was encountered writing data back to the .json file.

Summary

This week's code was a more functional version of the last few weeks as the custom error handling accounts for common issues expected when getting data from manual input. Storing data in the .json also allows more efficient data import and export.