Exercise 1.4: File Handling in Python

Learning Goals

- Use files to store and retrieve data in Python

Reflection Questions

- Why is file storage important when you're using Python? What would happen if you didn't store local files?

File storage allows you to save data for future use. Without it, any data you create would be lost, requiring you to re-enter it every time you need it..

- In this Exercise you learned about the pickling process with the pickle.dump() method. What are pickles? In which situations would you choose to use pickles and why?

Pickle is a library used to store data in a binary file. The `pickle.dump()` method serializes the data and saves it, while `pickle.load()` deserializes the data, converting it back into a format that can be easily read and used.

- In Python, what function do you use to find out which directory you're currently in? What if you wanted to change your current working directory?

We use the `os.getcwd()` method to find out which directory we're currently in.

To change our current working directory we use the `os.chdir(path)` method.

- Imagine you're working on a Python script and are worried there may be an error in a block of code. How would you approach the situation to prevent the entire script from terminating due to an error?

To prevent the entire script from terminating due to an error I would use try-except block. In the try block, code is executed. And if an error occurs, it is caught and handled in the except block.
This way, the script can continue running even if an error occurs in that specific section of code.

- You’re now more than halfway through Achievement 1! Take a moment to reflect on your learning in the course so far. How is it going? What’s something you’re proud of so far? Is there something you’re struggling with? What do you need more practice with? Feel free to use these notes to guide your next mentor call.

I think I'm doing pretty well. I've been working hard to complete the assignments correctly, though it's not easy. I'm focusing on understanding the relationships between methods and scripts. I’ve learned that I can import a script I created into another script to use the methods from the first script. Additionally, you can call methods within other methods. These techniques help to make the code clearer and prevent repetition.