Exercise 1.4: File Handling in Python

Learning Goals

- Use files to store and retrieve data in Python

Reflection Questions

1. Why is file storage important when you're using Python? What would happen if you didn't store local files?
   - File storage is important when using Python because without it your data is deleted once the program terminates. File storage enables you to save your data caches and user preferences.

2. 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?
   - Pickles are used as a way of serializing and de-serializing python objects. They are used when you want to save more complex data structures like dictionaries and lists.

3. 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?
   - os.getcwd() for current directory
   - os.chdir() to change directories

4. 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?
   - You would use the try-except-block. Python executed to the code to the corresponding block instead of terminating the script.

5. 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.
   - Reflecting on the learning journey so far, it's going well overall. I'm proud of the progress made and the understanding gained in Python fundamentals, particularly in file handling and error handling. I would like to continue working on my ability to create functions without referencing the lessons as much.