### 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?

Ans: File storage in Python is vital for persistently saving and accessing data. Without storing local files, you lose the ability to maintain state between program executions, limiting data retention and collaboration possibilities.

1. 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?

Ans: Pickles in Python act like secure containers for holding special data or models. They make it simple to save and later retrieve these items with all their details preserved. This is handy for tasks like keeping track of machine learning models or saving progress in games.

1. 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?

Ans:In Python, you can use the **os** module to find out the current working directory with the os.getcwd() function. If you want to change your current working directory, you can use the os.chdir(path) function, where path is the path to the directory you want to set as the new working directory.

1. 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?

Ans: To prevent the entire Python script from terminating due to an error in a specific block of code, you can use a try-except block. Wrap the potentially problematic code inside a try block, and if an exception occurs, handle it in the except block.

1. 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.

Ans: I am enjoying this portion of the class because python seems to be easier to learn and offers great functionalities in terms of files handling as well as an error handling in a rather simple and clear way.