Ryan Clabots

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Foundations of Programming (Python)

Assignment 07: Pickling and Error Handling

Github Repository Link: [Lazyboy369/IntroToProg-Python-Mod07 (github.com)](https://github.com/Lazyboy369/IntroToProg-Python-Mod07)

**Task**: Demonstrate examples of pickling data as well as error handling

Introduction

This week we learned about Pickling data and Error Handling. This script shows two simple scripts to demonstrate the concepts.

Writing the Script

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Figure 1 – Pickling Data

For the pickling section, two functions were used, one to store the data and the other to unpack it. The `pickle` module is imported first. The store data function opens a text file in binary append mode, creates a list, and prints the data before it's pickled. The list is then pickled using the `dump` object and the file then closed. The `load\_data` function is then called and once again opens the file in a read bianary mode. The pickled data is then loaded using the `load` opject into a variable that is printed to show how the data remains intact.

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Figure 2 – Error Handling

The error handling case uses an example from Assignment06 where the user is trying to add data to a dictionary table. This example shows how the error handling is used if the file that is being opened does not exist. The FileNotFoundError error handle is used in this case and captured as e. The user is notified that the file does not exist and the error is printed.

Running the Code

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Figure 3 – Script run in Pycharm Console

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Figure 4 – Script run in CMD Shell