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May 31, 2022

Foundations of Programming: Python

Assignment 07

GitHubURL: <https://github.com/seanybmb/IntroToProg-Python>

GitHub Page: <https://seanybmb.github.io/IntroToProg-Python-Mod06/>

Creating the Pickling and Error Handling Script

Introduction

This paper outlines the necessary steps to create the scripts to save to a binary file and outlines several ways of error handling. I used several sources to learn about, and dive into error handling and pickling, including:

* <https://www.tutorialsteacher.com/python/exception-handling-in-python>
* <https://www.synopsys.com/blogs/software-security/python-pickling/>
* Python Programming, Third Edition

Writing and Running the Pickling and Error Handling Script

I wrote and ran the script using PyCharm and saved the scripts into two different files

I first imported the pickle and then defined my variables. Next I processed the data by defining the functions which would be both written and read. And then finally is the user input section that then presents the data, stores it into a list, stores the list in a binary file. The data is then read, the file closed and then the information is printed.

Once the code was in place, I ran the code in PyCharm and via a Console Application. (Figure 1)

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**Figure 1: Pickle Code Running**

I changed the directory to the folder the script was in, typed “python” and then ran the script successfully. Once done, I hit enter which then prompts me to make my selection. I input several pieces of data which was then pickled and added to the file. (Figure 2)

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**Figure 2: Console Application running Python Pickling Script**

Graphical user interface, application

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**Figure 3: Notepad file**

For exception handling I covered three scenarios by using try:, except:, else:, and finally: - In this script we put in scenarios including: not having a file already created, inputting the wrong type of data or adding a zero.

Once the code was in place, I ran the code in PyCharm and via a Console Application. (Figure 4)

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**Figure 4: Exception Handling Code Running**

I changed the directory to the folder the script was in, typed “python” and then ran the script successfully. Once done, I hit enter which then prompts me to make my selection. I input several pieces of data which was then pickled and added to the file. (Figure 5)

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**Figure 5: Console Application running Python Exception Handling Script**

Summary

This paper described the process, using PyCharm (to create the Home Inventory Menu Script) and then explains how to run the script using Command Prompt to create a console application that receives input and writes the input information to a text file.