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IT FDN 110

Assignment 07

https://github.com/gfdelgadow/IntroToProg-Python

Lists and Dictionaries

Introduction

This python program captures user inputs and loads them into a binary file via pickling. The program then shows the user all of the data currently stored in the file.

Building the Script

Step 1: Gather user input data and place in list format.

```
import pickle

# Gathering user inputs
name = str(input("Enter a friend's name: "))
age = int(input("Enter a friend's age: "))
lstAge = [name, age]
```

Figure 1. Code for step 1

<u>Step 2</u>: Store data into binary file using pickle.dump method.

```
# Storing data into binary file
objFile = open("Assignment07.dat", "ab")
pickle.dump(lstAge, objFile)
objFile.close()
```

Figure 2. Code for step 2

Step 3: Read back pickled data in file via a list. Use try-except clause to pass end-of-file error.

```
# Reading back pickled data in file
objFile = open("Assignment07.dat", "rb")
with objFile as f:
    unpickled = []
while True:
    try:
        unpickled.append(pickle.load(f))
    except EOFError: # use try-except clause to bypass end-of-file error
    break
print("Here are all of your inputs so far: ")
for row in unpickled:
    print(row)
```

Figure 3. Code for step 3

```
Run: Assignment07 ×

/usr/local/bin/python3.9 /Users/gabe/Coding/_PythonClass/Assignment07.py
Enter a friend's name: Amelia
Enter a friend's age: 25

Here are all of your inputs so far:
['Gabe', 29]
['Janie', 25]
['Amelia', 25]

Process finished with exit code 0
```

Figure 4. Program running in PyCharm

```
Assignment07 — -bash — 80×24

Last login: Tue Aug 24 15:47:41 on ttys000

The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.

Janies-iMac:~ gabe$ cd /Users/gabe/Coding/_PythonClass/Assignment07/

Janies-iMac:Assignment07 gabe$ python3 Assignment07.py

Enter a friend's name: Bodie
Enter a friend's age: 26

Here are all of your inputs so far:
['Gabe', 29]
['Janie', 25]
['Amelia', 25]
['Cole', 24]
['Bodie', 26]
Janies-iMac:Assignment07 gabe$
```

Figure 5. Program running in terminal.

Summary

In this assignment, I learned how to use pickling to reduce file size, and how to use try-except clauses to handle errors.