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Foundations of Programming: Python
<https://github.com/Tfarah22/TFnd100-Mod07>

Assignment 7: Picking and Structured Error Handling

Using structured exception handling and a set of pre-defined exceptions, Python programs can determine the error type at run time and act accordingly.

Introduction

For this assignment, I will demonstrate how to work with pickling and structured error handling. Pickling is the process of serializing and deserializing data entered. Structured error handling is a set of predefined exceptions or errors.

Drafting the Code

I started by using the code provided in the module 07 handout I began by copying the data provided. My task consisted of creating pickling codes and including error codes that indicated where the user may have made an error.

Process

I ran the following script in Pycharm (see ex. 1 and fig. 1)

Ex. 1

```
Import pickle # This imports code from another code file!

# Data ----- #
strFileName = 'AppData.dat'
lstCustomer = []

# Processing ----- #
def save_data_to_file(file_name, list_of_data):
    file = open(file_name, "ab")
    pickle.dump(list_of_data, file)
    file.close()

def read_data_from_file(file_name):
    file = open(file_name, "rb")
    list_of_data = pickle.load(file)
    file.close()
    return list_of_data

# Presentation ----- #
try:
```

```

id = int(input("Enter the ID: "))
if type(id) == str:
    raise Exception

str_name = (input('Enter Name: '))
if str_name.isnumeric():
    raise Exception('Do not use numbers for Name')

lstCustomer = [id, str_name]
save_data_to_file(strFileName, lstCustomer)

except Exception as e:
    print("Error! Tip *Enter number")
    print("Error! Tip *Enter letters")

input('Press enter to finish')
i

```

Fig. 1

```

Run: main x
/usr/local/bin/python3.10 "/Users/tiyafarah/Documents/_PythonClass/Assignment 07/main.py"
Enter the ID: 23
Enter Name: tiya
Press enter to finish
Process finished with exit code 0

```

I was able to test the error messages by entering an incorrect input which then returned the error message as seen in fig. 2

Fig. 2

```

/usr/local/bin/python3.10 "/Users/tiyafarah/Documents/_PythonClass/Assignment 07/main.py"
Enter the ID: 4
Enter Name: 4
Error! Tip *Enter number
Error! Tip *Enter letters
Press enter to finish

```

Summary

I was able to verify that the script worked because it returned the value when I ran the script. It also allowed me to do all of the commands as well as provide the print statements for the errors.

