einsteinboricua@Denniss-MacBook-Pro Assignment07 % python3 Assigment07\_ErrorHandling.py

Let's run through a few scenarios where exceptions are thrown.

Let's start with IndexError and TypeError exceptions.

I have a list of major US airlines:

['American', 'Delta', 'United', 'Southwest', 'Frontier', 'Spirit', 'JetBlue', 'Alaska']

Select a number between 0-7: 3

You've picked Southwest

Now, select a number outside that range: 34

You picked a number outside the range and triggered an IndexError exception.

This is what Python would say:

list index out of range

Press enter to continue...

Now enter something other than a number: I love money

By entering something other than a number, you triggered a TypeError exception.

This is what Python would say:

list indices must be integers or slices, not str

Press enter to continue...

Now, let's look at a ZeroDivisionError exception.

Enter an integer other than zero: 40

Enter another one: 8

As it turns out 40 divided by 8 is 5.0

But if we make the second number a 0...(press enter)

We just triggered a ZeroDivisionError by dividing by 0.

This is what Python would say:

division by zero

Press enter to continue...

Here's an example of a ValueError.

Enter a positive integer: 36

The square root of that number is: 6.0

Now give me a negative number: -36

You tried finding the square root of a negative number, triggering a ValueError exception.

This is what Python would say:

math domain error

Press enter to continue...

Finally, let's look at the IOError.

What's the filename you want to read from? Don't forget the extension: TestFile.txt

Turns out the file doesn't exist and you triggered an IOError exception.

This is what Python would say:

[Errno 2] No such file or directory: 'TestFile.txt'

Press enter to continue...

All errors handled effectively and the program is allowed to end.

Press enter to exit.

einsteinboricua@Denniss-MacBook-Pro Assignment07 % python3 Assignment07\_Pickling.py

I have four data types to pickle: an integer, a string, a list, and a dictionary.

Here is the integer: 64

Pickling the integer now...

Pickled the integer

Press enter to pickle the string.

Here is the string: Python is cool

Pickling the string now...

Pickled the string

Press enter to pickle the list

Here is the list: ['United States', 'Canada', 'Mexico']

Pickling the list now...

Pickled the list

Press enter to pickle the dictionary

Here is the dictionary: {'Washington': 1, 'Lincoln': 16, 'FDR': 32}

Pickling the dictionary now...

Pickled the dictionary

Press enter to unpickle the contents

Here is the unpickled integer: 64

Here is the unpickled String: Python is cool

Here is the unpickled list: ['United States', 'Canada', 'Mexico']

Here is the unpickled dictionary: {'Washington': 1, 'Lincoln': 16, 'FDR': 32}

Review the file on the explorer for the contents.

Press enter to exit

einsteinboricua@Denniss-MacBook-Pro Assignment07 %