1. Run ZeroDivideValueWithoutHandling twice

For the first run give it 0 as the divisor and 10 as the dividend

Write down the error message that appears

ZeroDivisionError: division by zero

For the second run, give it 'cat' as the divisor and 'dog' as the dividend

Write down the error message that appears

ValueError: invalid literal for int() with base 10: 'cat'

1. Run ZeroDivideValue with the same inputs as above

What happens this time?

There is no error messages by python but by the program.

Why does the second version continue working?

The program can check the validation and repeat to ask user to enter a right number.

Look at the code and explain what is different between the two versions

there is "except"s which can distinguish the wrong input

1. Run FileInputWithoutHandling with the following inputs, and write down the errors that occur:

unknownFile.txt

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

notATextFile.txt

UnicodeDecodeError: 'gbk' codec can't decode byte 0x90 in position 2: illegal multibyte sequence

1. Run FileInput with the same inputs:

What happens this time?

There is no error messages by python but by the program.

Why does the second version continue working?

The program can check the validation of the filename and repeat to ask user to enter a right file name.

Are both exceptions being detected and handled in the same place? Explain

No. unknownFile.txt is outer try for infile open; notATextFile.txt inner try for processing infile.

1. Run FileWriteWithoutHandling as directed in your prelab, and write down the error that occurs for the second run

TypeError: must be str, not int

1. Run FileWrite as directed in your prelab

What happens the second time?

There is no error messages by python but by the program.

Where is the exception being detected and handled?

except TypeError as err: # inner exception handler for outfile processing

1. Run FileIOWithoutRepeats with the following inputs, and note any error messages that occur

unknownFile.txt

File not found: deleted or in wrong folder?

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

The error is File not found, it is outer exception handler for infile open in 1st try

notATextFile.txt

Problem reading data, wrong format or corrupted?

'gbk' codec can't decode byte 0x90 in position 2: illegal multibyte sequence

The error is: illegal multibyte sequence, it is in inner exception handler for infile processing in 2nd try

allValues.txt

no error

Then uncomment the hash tag at #1, and comment out the hash tag at #2

allValues.txt

Problem writing data, wrong format or corrupted?

invalid literal for int() with base 10: '0 1 10 11 100 101 110 111 1000 1001 \n'

The error is invalid literal for int(), it is in inner try for outfile processing in 4th try

1. Run FileIOWithRepeats with the same inputs as above

In each of the above cases, when an error occurred, what was it and where was it detected and handled?

unknownFile.txt

File not found: deleted or in wrong folder?

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

The error is File not found, it is outer exception handler for infile open in 1st try

notATextFile.txt

Problem reading data, wrong format or corrupted?

'gbk' codec can't decode byte 0x90 in position 2: illegal multibyte sequence

The error is: illegal multibyte sequence, it is in inner exception handler for infile processing in 2nd try

allValues.txt

no error

Then uncomment the hash tag at #1, and comment out the hash tag at #2

allValues.txt

Problem writing data, wrong format or corrupted?

invalid literal for int() with base 10: '0 1 10 11 100 101 110 111 1000 1001 \n'

The error is invalid literal for int(), it is in inner try for outfile processing in 4th try