File Processing/Exceptions

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Try/Except

```
1   num = int(input("Give me a non-zero integer: "))
2
3   print(5/num)
4
```

```
chelseaparlett@Chelseas-iMac Desktop % python3 test.py
Give me a non-zero integer: 0
Traceback (most recent call last):
  File "/Users/chelseaparlett/Desktop/test.py", line 3, in <module>
    print(5/num)
ZeroDivisionError: division by zero
```

Try/Except Syntax

```python
1  try:
2      # try to execute this code
3      num = int(input("Give me a non-zero integer: "))
4
5      print(5/num)
6  except:
7      # if anything in the try block gives an error...
8      print("This is not a non-zero integer...")
```

Try/Except Syntax

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4
5       print(5/num)
6   except:
7       # if anything in the try block gives an error...
8       print("This is not a non-zero integer...")
9
```

```
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Traceback (most recent call last):
  File "/Users/chelseaparlett/Desktop/test.py", line 3, in <module>
    print(5/num)
ZeroDivisionError: division by zero
```

```
chelseaparlett@Chelseas-iMac Desktop % python3 test.py
Give me a non-zero integer: 0
This is not a non-zero integer...
```

Multiple Exceptions

```python
1  number = int(input("Give me a positive number: "))
2
3  print(5/number)
4
```

```
chelseaparlett@Chelseas-iMac Desktop % python3 test.py
Give me a positive number: 0
Traceback (most recent call last):
  File "/Users/chelseaparlett/Desktop/test.py", line 3, in <module>
    print(5/number)
ZeroDivisionError: division by zero
```

```
chelseaparlett@Chelseas-iMac Desktop % python3 test.py
Give me a positive number: ten
Traceback (most recent call last):
  File "/Users/chelseaparlett/Desktop/test.py", line 1, in <module>
    number = int(input("Give me a positive number: "))
ValueError: invalid literal for int() with base 10: 'ten'
```

Raising Exceptions

Finally