

Exceptions

Exceptions are errors that the Python interpreter encounters, for example when you try to open a file for reading that doesn't exist.

You can write programs to do specific things when these errors are encountered by using `try` and `except`.

Try and Except

```
try:
    open(filename, 'r')
    # Do stuff with the file

except FileNotFoundError:
    print('Error: file not found')
```

If a `FileNotFoundError` occurs while executing the code in the `try` block, the code in the `except FileNotFoundError` block will be run instead of the rest of the try block.

Else

It can be neater to keep only the stuff likely to throw the error in the try block, and you can do that with an `else` block:

```
try:
    open(filename, 'r')
except FileNotFoundError:
    print('Error: file not found')
else:
    # Do stuff with the file
```

The else block will be run only if no errors were encountered during the try block.

Handouts & Assignments

- Handout 16 - Exceptions
- Assignment 13 - Reading and Writing Files & Exceptions