Error Handling

- If a function encounters an error (error reading a file,
network error, given belief are inappropriate, etc.) how does
it communicate to its caller that something went wrong?

- Peturn a special value indicating an error

- Returning None is Common in python

- Doesn't allow for details about the error to be returned

- Raise an exception

- Information about the error can be communicated
through the type of the exception, and an error
message and other data can be contained with the
exceptor object

Exceptions in Python

- Many built-in exaptions

an inappropriate value

int ('42') returns 42

int () Z / Pe

int ('hello') raises a Value Ernr

- OSErry - base class for all exaptions related to system errors

- Value Error - a function argument is the right type but

File Not Form) Emr, Permission Emr

- All exapting when I from Exaption - try/exapt blocks - If an exaption is raised withis a try block and there is an except block that can hade the exception type. the exapt block is immediately executed - If an exaption is not horsed by an block, the executing function immediately exception is proposated to the colle

- If an exeption propagater through the entire call stack, the program crasher and a stack trace is priviled

- An else block can be provided which will be executed it we executed

except block was executed regardless of whether any exapt block was executed

- Custom exaptions

- Extend an existing exception class to create a castom exception

- Libraries typically define their own exception types
configurar. Parsing Error

- Lagur pregnat can benefit from conton exceptions too