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files.py -- a few file-related operations, plus a first encounter
with exceptions
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Jeff Ondich, 24 October 2006
Tianna Avery, November 2018, updated for Python 3
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Read, predict the output, experiment.
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import sys

print('==== command-line arguments =====')
if len(sys.argv) <= 1:
    print('Usage: {0} filename\n'.format(sys.argv[0]),
          file=sys.stderr)
    exit()

file_name = sys.argv[1]
print('The requested file is', file_name)
print()

print('==== reading from a file =====')
try:
    open_file = open(file_name)
except Exception as e:
    print('Here is the error message built into the exception:\n
{0}\n'.format(e), file=sys.stderr)
    exit()

for line in open_file:
    line = line.upper()
    print(line,)

open_file.close()

print()

print('==== writing to a file =====')
try:
    open_file = open('output.txt', 'w')
except Exception as e:
    print('Here is the error message built into the exception:\n
{0}\n'.format(e), file=sys.stderr)
    exit()

open_file.write('the moose frolicked\n')
# or, alternatively, print('the moose frolicked\n', file=open_file)
open_file.write('in the meadow\n')
open_file.close()
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print()
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