lists.py -- simple samples of a few list and tuple-related operations

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Read, predict the output, experiment. Note that there's a crash in the code as it stands. Why does it crash? Comment out the offending line once you understand why it's offensive.

print('=============== initializing and iterating through a simple list ===============')
some_list = ['moose', 'emu', 'goat', 'squid']
for item in some_list:
    print(item)

print('=============== "slicing" a list ================')
some_list = ['moose', 17, 'emu', 'goat', 'squid']
print('some_list --', some_list)
print('some_list[2:3] --', some_list[2:3])
print('some_list[2:] --', some_list[2:])
print()
# Note the difference between ['ant'] and 'ant' in this context
some_list[2:4] = ['ant']
print('some_list --', some_list)
some_list[2:4] = 'ant'
print('some_list --', some_list)
some_list.append('cow')
some_list.extend(['kiwi'])
print('some_list --', some_list)

print('=============== tuples: read-only lists ================')
some_tuple = ('dog', 23, 'cat')
for thing in some_tuple:
    print(thing)

# This will crash.
print('Try to add to a tuple...')
some_tuple.append('gerbil')
print()

print('============== more list operations ===============')
# Go to https://docs.python.org/3/tutorial/datastructures.html
# and play around with the various list operations.