

```

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

    Jeff Ondich, 24 October 2006
    Tianna Avery, November 2018, updated for Python 3

    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()

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)
print()

some_list.append('cow')
some_list.extend(['kiwi'])
print('some_list --', some_list)
print()

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.
```