## **Self-test: Exceptions**

1. The following (somewhat inefficient) function counts the number of lines in a file. However, if the file is not found, it creates a run-time error and the program terminates, because a FileNotFoundError is raised. Use a try block in order to handle this exception by just printing a line that says: "File could not be found".

```
def length_file(filename):
    with open(filename) as infile:
        return len(infile.readlines())
```

This is the current behavior:

```
>>> length_file("ttt")
Traceback (most recent call last):
    File "<pyshell#0>", line 1, in <module>
        length_file("ttt")
    File "/Users/thomasschwarz/Documents/My website/Classes/Python_Big_Data/Module
22/selftest.py", line 3, in length_file
    with open(filename) as infile:
FileNotFoundError: [Errno 2] No such file or directory: 'ttt'
>>> length_file("selftest.py")
4
```

This is how it should behave:

```
RESTART: /Users/thomasschwarz/Documents/My website/Classes/Python_Big_Data/Modu
le22/selftest.py
>>> length_file("selftest.py")
7
>>> length_file("ttt")
File_does_not_exist, you_stupid_person
```

## **Solution:**

def length\_file(filename):
 try:
 with open(filename) as infile:
 return len(infile.readlines())
 except FileNotFoundError:
 print("File does not exist, you stupid person")