

New York University  
School of Continuing and Professional Studies  
Division of Programs in Information Technology

Introduction to Python  
Session 3 Homework Solutions

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### 3.1 Average Mkt-RF for a given year.

```
filename = '../python_data/Fama-French_data.txt'

while True:
    uinput = input('please enter a 4-digit year: ')
    if not uinput.isdigit() or len(uinput) != 4:
        print('sorry, that was bad input')
        continue
    break

count = 0
mysum = 0.0

fh = open(filename)

for line in fh:
    year = line[0:4]
    if year == uinput:
        items = line.split()
        mktrf = float(items[1])
        mysum = mysum + mktrf
        count = count + 1

print('count {}, sum {}, avg {}'.format(count, mysum, mysum / count))
```

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### 3.2 wc emulation.

```
uinput = input('please enter a filename: ')

fh = open(uinput)
text = fh.read()

lines = text.splitlines()
words = text.split()

print('{}{}{} {}'.format(str(len(lines)).rjust(8), str(len(words)).rjust(8), str(len(text)).rjust(8), uinput))
```