

Programming Exercise 2

Word Count

In the Canvas folder for this assignment is a file named **Strings.txt**. Write a Python program that reads all the words (consisting only of letters and apostrophes) in the file and prints out each word and the number of times it occurs in the file, disregarding case (convert everything to lower case). The output should look something like:

```
the: 101
a: 54
to: 46
string: 45
in: 44
and: 38
of: 35
i: 35
is: 22
for: 22
that: 19
you: 19
stringbuffer: 18
as: 16
it: 15
java: 14
are: 14
if: 14
figure: 13
time: 12
can: 12
line: 12
with: 11
```

...

Note the right-aligned formatting and that the output is sorted in descending order by frequency. The order of the words within each frequency is not important. The width of the first column is based on the length of the longest word found in the file.

Submit your source code in a file named *wc.py*, and also a file containing the entire output. You can redirect your program's output to a file from the command line as follows:

➤ `python wc.py > wc.txt`

The output will appear in the file *wc.txt*.