

How Good is Your Python?

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This is a self-assessment exercise, designed to help you prepare for the Advanced Natural Language Processing / Engineering module. If you find any of the questions tricky, then there are many resources to help you: Python textbooks, online documentation and other resources, the module discussion forum.

1. Write a python program to take a text file and output the number of lines, words and characters in the file.
2. What assumptions do you make about the text?
3. Can you write the program so that it can be run from the command line? And so that you can give the name of the text file to be processed on the command line?
4. Can you extend your code so that you can find the average length of a word?
5. Can you extend your code so that you can find the most frequently occurring letter?
6. Can you extend your code so that you can display a bar graph showing the frequency distribution of letters in the text file?