

## Python In-class Programming Assignment

### File Stats

Write a python program to ask the user for the name of a text file. Open the file, and calculate and present the following statistics:

- Total number of characters
  - Total number of lines
  - Total number of spaces
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There are several text files available in `~/repo201/classwork/cw25` that you can use to test your program. That directory also contains an executable program called `fileStats` that you can run on the included text files to make sure your program is providing the correct answers. To use the `fileStats` executable follow these instructions:

1. First, make sure your repo is up-to-date.
2. Next, let's assume you're working in your `~/shares/sy201` directory. You can run `fileStats` by first copying it to your working directory and then adjusting its permissions with the following commands:
  - i. `cp ~/repo201/classwork/cw25/fileStats .`  
*(the trailing space and period in the command above are important)*
  - ii. `chmod 755 fileStats`
3. You only have to perform steps (i) and (ii) once. After that, you can run the program any time you want by typing: `./fileStats`