

Closed Lab 4

grep

Description: **grep** is a Unix/Linux command line tool that scans files for a target string.

The output consists of the filename and the contents of the line for every occurrence of the target string. The **-n** flag to **grep** causes it to report the line number for each occurrence in addition to the information above.

For this assignment, you will implement a version of **grep** in Python. Your implementation will scan all of the files in a provided directory of files for a target string entered by the user. It will behave as described above for **grep -n**. Your program should find the string independent of upper or lower case. An example output line searching for 'Lab' will look like this:

```
c104.tex: 42: This lab assignment is awesome.
```

Your program should identify the same line if the user enters any of the following strings: 'LAB', 'lab', 'lAb', 'lAB', 'LaB', 'LAb', 'Lab', laB'.

Details: The zip file you downloaded contains the directory of files your program should scan as well as a python file to get you started.