

CS-213 : Lab 9 : sed

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In this lab you will learn to write sed scripts.
Deadline : 1730 hours 15 October 2019.

Submission guidelines:

Please create a directory called "rollno-lab9" where "rollno" is your roll number. Keep all your scripts in this directory : script1.sh, script2.sed, script3.sed, script4.sed.

Use following command to create a tar ball :

```
tar -czvf rollno-lab9.tgz rollno-lab9/
```

Upload this tarball "rollno-lab9.tgz" on moodle.

Do not change cases, and do not deviate from the naming scheme for your scripts, directory or tar file to be uploaded.

All the sed scripts will be run as

sed -f script.sed inputfile.txt

1. script1.sh:

Write a sed command/script to emulate `wc -l` command. This file is run as a bash script by typing : `. script1.sh filename.txt`

2. script2.sed

Write a sed script which takes an input file and puts a line number at the beginning of each line.

This file is run as a bash script by typing : `. script2.sh filename.txt` For example :input.txt has the following contents:

this is first line

this is third line
this is fourth line.

should be written to output.txt as follows: See that all blank lines also get a number.

(1) this is first line
(2)
(3) this is third line
(4) this is fourth line

3. script3.sed:

Given input files contains new-lines and white spaces and tabs. Write a sed script to

- (a) Remove all leading spaces
- (b) Collapse every sequence of white spaces between two words in a single line into a single space, and
- (c) Collapse every sequence of white spaces between two lines into a single newline. All other suffix and prefix whitespaces are to be deleted.
- (d) Print the output to screen.
For example

” how are you

fine.

”

becomes

” how are you

fine.

”

4. script4.sed :

There is a text file called input.txt such that there are four “strings” on each line.

For example:

VeenaDaniel Raj 3456
Veena Michael Raj3456

This has to be written so that all four fields in the record (line) are separated by a single tab. Therefore above output looks like

<i>Veena</i>	<i>Daniel</i>	<i>Raj</i>	4356
<i>Veena</i>	<i>Michael</i>	<i>Raj</i>	3465
