

ITWS-II

Assignment I

(Grep + Sed + Awk)

NOTE : Deadline : 22nd January 2018, 9pm

Please read the Submission Guidelines at the end of the document.

1) You are given a file containing lines. Replace all the occurrences of 'in' with 'in fact'. Only do this for lines that have more than 35 characters.

2) Take those lines that have 'apathy' as the 3rd word in the line, replace it with the word 'empathy' and then print the new lines. Make sure to use grep, awk AND sed (all 3 must be used).

3) You're given a file full of passwords that need to be censored. Censor all the characters after the first 4 characters with a '#' replacing each character.

For example:

If the password is: INeedHealing

Your output for that will be:

INee#####

4) Write a Bash script (using awk) , userlist.sh, to list all the users on the system.

The command to run will look like:

```
$ userlist.sh
```

```
Return:USER #1 = root
```

```
USER #2 = bin
```

```
USER #3 = daemon
```

```
...
```

```
USER #33 = bozo
```

Hint: Use the contents of the file /etc/passwd

5) Suppose you were walking near the IIIT-IDBI junction when a suspicious car suddenly jumped the signal and fled away. In the wake of certain terrorists attempts in the nation, the police would not ignore this. It has made a file named "MostWanted.txt" publicly available, a list of the most wanted license plates. As a responsible citizen, you want to help in your capacity. You vividly recall the car's number that it has TS at the beginning, had two or three consecutive 5 or S (not sure which) toward the end and ended with 0 or O (again not sure which). Search for such numbers from the file. Assume the format of plate is "statecode-XX-XXXX-X" or "statecode XX XXXX X".

Submission Guidelines :

1. The assignment evaluation will be automated (So, input and output formats should be strictly adhered to). A submission portal will be provided to test your solutions before submitting. Details will be announced soon.
2. You will also have to create two text files `<rollno>_assign1_command.txt` and `<rollno>_assign1_explain.txt`
3. Add all your answer commands in the file `<rollno>_assign1_command.txt` with the format. "`<command no> command`" e.g. 1. echo "hello world". If there are multiple commands for a single question separate them by new line character. Don't write any output or explanation in this file
4. Add the explanation for each answer in the `<rollno>_assign1_explain.txt`
5. Add all the files in the folder "`<rollno>_ assign1`" and create a file `<rollno>_assign1.tar.gz` and upload it on courses portal.
6. There will be thread on the courses portal for the doubts make use of that if you have any question. You can also make the use of mailing list. Don't mail personally to any TAs or the faculty.
7. Plagiarism will not be entertained. Negative marks will be awarded in such scenarios.