# CSE 4251: Lab 2

**Overview**

These exercises will allow you to have some practice with the Unix/Linux environment, regex (**Reg**ular **Ex**pressions), commands and basic concepts.

# Objectives

* Get familiar with the system working environment and basic commands
* Get familiar with Regular Expressions (RE) and grep command
* Review commonly used Unix/Linux commands

# Instructions

Create a new folder named Lab02 in your UNIX working directory. Put the ***peopleonEarth.txt*** file downloaded from Carmen in the Lab02 folder before doing Exercise 1 and 2. The commands in this homework should be executed in this Lab02 folder.

# Exercise 1 Description

**Write a statement with the grep command and regular expressions to find the given pattern for each one of the cases** on the following list. Hint: try each one of statements in the command line; once you get it working correctly add it to a text file **called *Lab2\_1.txt* to be included in the submission:**

1. Try this on the command line and explain what it is doing: grep hom.\*ds p\*
2. Print all lines containing the expression “70” in ***peopleonEarth.txt*** .
3. Print all lines beginning with a “t” or “T”.
4. Print all lines ending with a “4”.
5. Print all lines containing “people”.
6. Print all lines containing the number “4”.
7. Print all lines containing the number “4” followed by a comma “,”.
8. Print all lines containing the expression “,4”.
9. Print all lines containing the number “4” followed by a comma “,” and any single character
10. Print all lines beginning with either an “I” or a “T”.
11. Print all lines containing one or more lower case letters.
12. Print all lines containing one or more digits followed by a space and a capital letter.
13. Print all lines containing an “s” followed by zero or more consecutive occurrences of the letter “s” and a space.
14. Print all lines containing a word which has at least eight lowercase letters. e.g. “counting”, “population”.
15. Print all lines containing a word starting with “human”.
16. Print all lines containing the word “million”.
17. Print all lines containing a word starting with a lowercase letter and followed by one or more characters and ending with “t”.

# Exercise 2 Description

Use script to record the commands executed in this exercise. **Name that file *Lab2\_2.txt.***

In this exercise you are going to examine Grep with options.

1. Print all lines beginning with either an “I” or a “T” and try in this case to execute the grep

command with each one of the following options (individually, not all of them at the same time): -n,

-i, -l, -c, -w.

1. Print all lines if they contain the word “million” and try in this case to execute the grep command with each one of the following options (individually, not all of them at the same time): -v, -l, -w.

# Submission Instructions

To submit, create a single zip file that contains the two files **Lab2\_1.txt** and **Lab2\_2.txt**.