Exercise 1: Unix systems & Shell

In this exercise you will practice navigating through files and directories of a computer through the Shell commands that we learnt in class.

1. Start by accessing your user (name_surname) in the server (IP: 54.246.165.23):
   - Open your computer's terminal (Terminal in MacOS/Linux or Cygwin in Windows).
   - Login to the server using your user name and password:
     `ssh <name_surname>@54.246.165.23`
2. Once you access the server, you will be located in your `home` folder. Remember you can use `pwd` any time to see the path of your working directory (where you are located in the computer). Using `cd` and `ls`, go in to the `hw1` directory and list its content.
3. Create a new directory called `solution`.
4. Copy the file `answers` to the directory you just created. Use this file to report the answers of the next questions. (Remember you can use `nano` or `vim` as editors)
5. How many files and directories are in the `hw1/data` directory?
6. Now, we will play hide and seek. Move around in the 'hide-and-seek' directory and try to find the file 'youfoundit.txt'.
   - In which directory is located?
   - There is a secret message. Which message is it?
7. Try finding the 'anotherfile.txt' file without changing directories.
   - This file contains an inspiring quote. Create a new file called 'inspiring_quote' within the 'solution' directory and copy this quote without using an editor. Hint: You can use the `cat` command and redirection (`>`).
8. There is a *hidden* file in one of the directories.
   - According to that file, what's every parent's dream?
9. Now, move to the 'data' directory. What happens if you do `ls survey*csv`? How is that different than `ls surveycsv`?
10. How many records in the 'species.csv' file contain 'Reithrodontomy'?
11. Execute the file 'hello.sh' and append it's result at the end of 'solution/answers' file. IMPORTANT: Use '`>>`' to append, '`>`' would overwrite all the file.
12. Rename the file 'answers' in 'solution' directory to 'answers__' where is your name and surname