Operating Systems

Part B

13/02/2007

1. Write a shell script **`p.bat`** that sends in execution, in background, the list of processes given as arguments in the command line. Then, at intervals of 5 seconds, it sends a **`SIGUSR1`** signal to the next process in the list that is still running. Example of use:
   `p.sh proc1 proc2 proc3`

2. Write a shell script that modifies the name of every file of type **`directory`** in the sub-tree of the current directory so that all its characters are upper case, and its access rights are set to **`drwxr-xr-x.`**

3. Write a shell script that receives as arguments in the command line a list of files, and for each field, if it exists, prints the following information:
   a. If the file is a regular file, prints its name, its dimension, and if the user has read and write permissions
   b. If the file is a directory, prints its name, and how many sub-directories it contains

   Notice that the output of command ls -l is like the following this:

```
drwx------   12 user  user   408 Oct 30 19:09 Desktop
-rw-r--r--    1 user  user   192 Jul 13 00:03 pippo
-rwxr-xr-x    1 user  user    74 Nov  3 10:02 prova.awk
drwxrwxrwx   22 user  user   408 Oct 30 12:09 tmp
```