

# Practical 1

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## 1 BASH, PIPE AND I/O REDIRECTION

- 1. List everyone logged in and save the list in a file called "users" in your own home directory.

Answer: `w`

- 2. List all processes that are running and add this list to the end of the "users" file.

Answer: `ps A`

- 3. List everyone who is logged on sorted by their username.

Answer: `w | sort`

- 4. Count number of session each logged in user, sorted by this number in descending order.

Answer: `w | sort -r`

- 5. Show content of the first and last 3 lines of the file `/etc/fstab`

Answer: `head -3 /etc/fstab tail -3 /etc/fstab`

- 6. Retrieve line number 5 to 10 from the file `/etc/fstab` and write these files into a new file `extract.txt`

Answer: `sed -n '5, 10p' /etc/fstab`

- 7. List all files in current directory, recursively, to which the user has full permission.

Answer: `ls -rf`

- 8. Compare two files and show percentage of similarities between them.

Answer: `wdiff -s2 file1.txt file2.txt`

- 9. Find all files in current directory, recursively, that are at least 90 percent similar

Answer: I am working on.

## 2 APPENDIX

- Question 1.
- Question 2.
- Question 3.