

Made with by 1

1. List the user commands and redirect the output to /tmp/commands.list
2. Count the number of user commands
3. Get all the users names whose first character in their login is 'g'.

```
nader@nader-Latitude-E5530-vPro:~$ ls /usr/bin > /tmp/Command.list
nader@nader-Latitude-E5530-vPro:~$ wc -c /tmp/command.list
wc: /tmp/command.list: No such file or directory
nader@nader-Latitude-E5530-vPro:~$ sudo wc -c /tmp/command.list
wc: /tmp/command.list: No such file or directory
nader@nader-Latitude-E5530-vPro:~$ sudo wc -c /tmp/Command.list
13343 /tmp/Command.list
nader@nader-Latitude-E5530-vPro:~$ grep "^g" /etc/passwd
games:x:5:60:games:/usr/games:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
geoclue:x:122:127::/var/lib/geoclue:/usr/sbin/nologin
gnome-initial-setup:x:124:65534::/run/gnome-initial-setup:/bin/false
gdm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
```

4. Get the logins name and full names (comment) of logins starts with "g".

```
nader@nader-Latitude-E5530-vPro:~$ grep "^g" /etc/passwd > sortfile
nader@nader-Latitude-E5530-vPro:~$ man sort
```

5. Save the output of the last command sorted by their full names in a file

```
nader@nader-Latitude-E5530-vPro:~$ sudo sort -d sortfile
games:x:5:60:games:/usr/games:/usr/sbin/nologin
gdm:x:125:130:Gnome Display Manager:/var/lib/gdm3:/bin/false
geoclue:x:122:127::/var/lib/geoclue:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
gnome-initial-setup:x:124:65534::/run/gnome-initial-setup:/bin/false
nader@nader-Latitude-E5530-vPro:~$
```

6. Write two commands: first: to search for all files on the system that named .bash_profile. Second: sorts the output of ls command on / recursively, Saving their output and error in 2 different files and sending them to the background.

```
nader@nader-Latitude-E5530-vPro:~$ sudo find / -type f -name bash_profile >> op 2>>er
[sudo] password for nader:
```

7. Display the number of users who is logged now to the system.

```
nader@nader-Latitude-E5530-vPro:~$ wc -l
who
1
nader@nader-Latitude-E5530-vPro:~$
```

8. Display lines 7 to line 10 of /etc/passwd file

```
nader@nader-Latitude-E5530-vPro:~$ sed -n '7,10p' /etc/passwd
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
nader@nader-Latitude-E5530-vPro:~$
```

9. What happens if you execute:
cat filename1 | cat filename2 |

it show the content of file2 (er)

```
nader@nader-Latitude-E5530-vPro:~$ sudo cat op | cat er
find: '/run/user/1000/doc': Permission denied
find: '/run/user/1000/gvfs': Permission denied
find: '/-name': No such file or directory
find: 'bash_profile': No such file or directory
find: '/-name': No such file or directory
find: '.bash_profile': No such file or directory
find: '/-name': No such file or directory
find: '.bash_profile.': No such file or directory
find: '/run/user/1000/doc': Permission denied
find: '/run/user/1000/gvfs': Permission denied
find: '/run/user/1000/doc': Permission denied
find: '/run/user/1000/gvfs': Permission denied
find: '/-name': No such file or directory
find: 'bash': No such file or directory
find: '/run/user/1000/doc': Permission denied
find: '/run/user/1000/gvfs': Permission denied
nader@nader-Latitude-E5530-vPro:~$
```

ls | rm

```
nader@nader-Latitude-E5530-vPro:~$ ls | rm
rm: missing operand
Try 'rm --help' for more information.
```

ls /etc/passwd | wc -l

```
nader@nader-Latitude-E5530-vPro:~$ ls /etc/passwd | wc -l
1
nader@nader-Latitude-E5530-vPro:~$
```