1)List the user commands and redirect the output to /tmp/commands.list

```
Hello abrar, today's date is 23-03-20 ,الاثنين
abrar@abrar-Inspiron-N4050:~$ ls /user/bin
ls: cannot access '/user/bin': No such file or directory
abrar@abrar-Inspiron-N4050:~$ ls /usr/bin > /tmp/commands.list
abrar@abrar-Inspiron-N4050:~$
```

2)Count the number of user commands

```
abrar@abrar-Inspiron-N4050:~$ w| wc -l
3
abrar@abrar-Inspiron-N4050:~$
```

3)Get all the users names whose first character in their login is 'g'.

```
abrar@abrar-Inspiron-N4050:~$ cat /etc/passwd | cut -d ":" -f 1 | egrep "^g"
games
gnats
geoclue
gnome-initial-setup
gdm
abrar@abrar-Inspiron-N4050:~$
```

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

```
abrar@abrar-Inspiron-N4050:~$ grep "^g" / etc/passwd | cut -d : -f1
grep: /: Is a directory
grep: etc/passwd: No such file or directory
abrar@abrar-Inspiron-N4050:~$
```

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

```
abrar@abrar-Inspiron-N4050:~$ grep "^g" / etc/passwd | cut -d : -f1 | sort >abrar
grep: /: Is a directory
grep: etc/passwd: No such file or directory
bash: abrar: Is a directory
abrar@abrar-Inspiron-N4050:~$
```

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

```
abrar@abrar-Inspiron-N4050:~$ find/ -name ".bash_profile"
bash: find/: No such file or directory
abrar@abrar-Inspiron-N4050:~$
```

I cant find .bash_profile

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

```
abrar@abrar-Inspiron-N4050:~$ id | wc -w
3
abrar@abrar-Inspiron-N4050:~$ who | wc -l
1
abrar@abrar-Inspiron-N4050:~$
```

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

```
abrar@abrar-Inspiron-N4050:~$ sed -n "1,10p" /etc/passwd | cat -n
     1  root:x:0:0:root:/root:/bin/bash
     2  daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
     3  bin:x:2:2:bin:/bin:/usr/sbin/nologin
     4  sys:x:3:3:sys:/dev:/usr/sbin/nologin
     5  sync:x:4:65534:sync:/bin:/bin/sync
     6  games:x:5:60:games:/usr/games:/usr/sbin/nologin
     7  man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
     8  lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
     9  mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
    10  news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
abrar@abrar-Inspiron-N4050:~$
```

9)What happens if you execute
   1) cat filename1 | cat filename2
   - filename 1 output will send to input filename2 .
2,3)

```
abrar@abrar-Inspiron-N4050:~$ ls | rm
rm: missing operand
Try 'rm --help' for more information.
abrar@abrar-Inspiron-N4050:~$ ls /etc/passwd | wc -l
wc: -l: No such file or directory
abrar@abrar-Inspiron-N4050:~$
```