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

compgen -c >> /tmp/commands.list

**2-Count the number of user commands**

compgen -c | wc -l

**3-Get all the users names whose first character in their login is ‘g’**

cat /etc/passwd | cut -d ":" -f 1 | egrep "^g"

**4-Get the logins name and full names (comment) of logins starts with “g”**

getent passwd | egrep "^g" | cut -d ':' -f 1,5 | cut -d ',' -f 1

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

getent passwd | egrep "^g" | cut -d ':' -f 1,5 | cut -d ',' -f 1 | sort > test\_s.txt

**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.**

sudo find / -name .bash\_profile

(ls -R / | sort > output.txt) >& error.txt &

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

who | wc -l

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

head -10 /etc/passwd | tail -4

**9-What happens if you execute:**

**• cat filename1 | cat filename2**

Error because out of first command is invalid input into the second command

**• ls | rm**

Also error because rm does not read from standard input (|)

**• ls /etc/passwd | wc –l.**

1 which is the number of files which is /etc/passwd basically

**10.Issue the command sleep 100**

sleep 100

**11.Stop the last command.**

Cntrl + z

**12.Resume the last command in the background**

bg

**13.Issue the jobs command and see its output**

jobs

**14.Send the sleep command to the foreground and send it again to the background.**

Fg %1

Cntr + z

Bg %1

**15.Kill the sleep command.**

Kill %1

**16.Display your processes only**

ps -U $USER

**17.Display all processes except yours**

ps aux | grep -v $USER

**18.Use the pgrep command to list your processes only**

pgrep -l -U $USER

**19.Kill your processes only.**

killall -u $USER