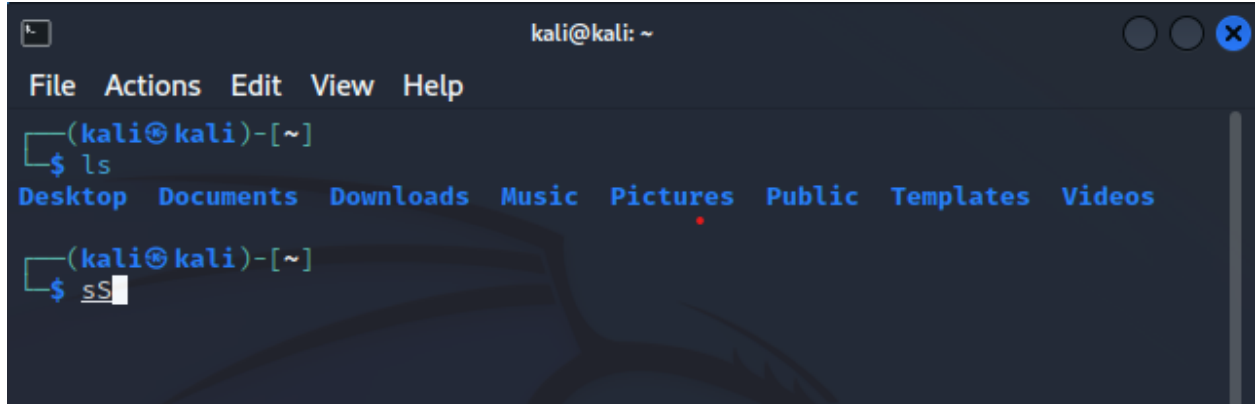


Objective 2: Practice Basic commands in Linux.

1. ls:

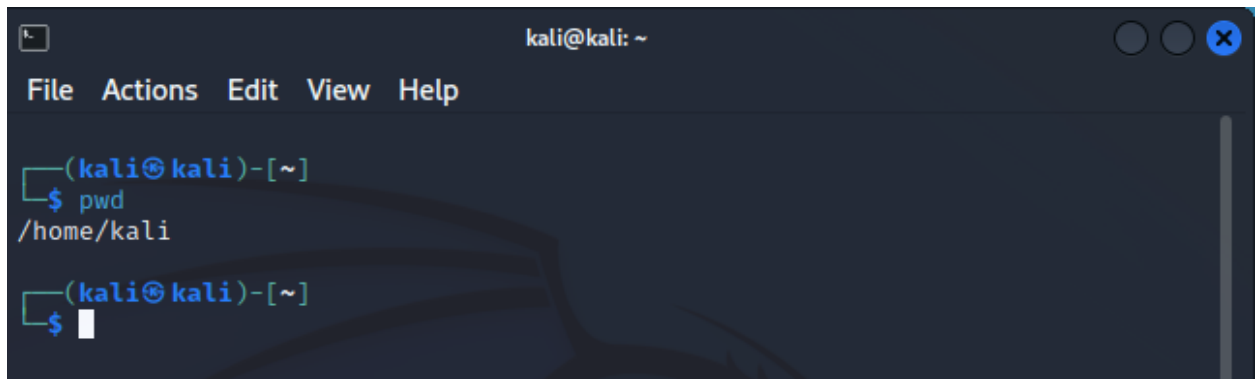
Use the "ls" command to know what files are in the directory you are in.

A terminal window titled 'kali@kali: ~' with a menu bar (File, Actions, Edit, View, Help). The prompt is '(kali@kali)-[~]'. The command '\$ ls' has been entered, and the output is a list of directories: Desktop, Documents, Downloads, Music, Pictures, Public, Templates, and Videos. The prompt is now '\$ ss' with a cursor at the end.

```
kali@kali: ~  
File Actions Edit View Help  
(kali@kali)-[~]  
$ ls  
Desktop Documents Downloads Music Pictures Public Templates Videos  
(kali@kali)-[~]  
$ ss
```

2. pwd:

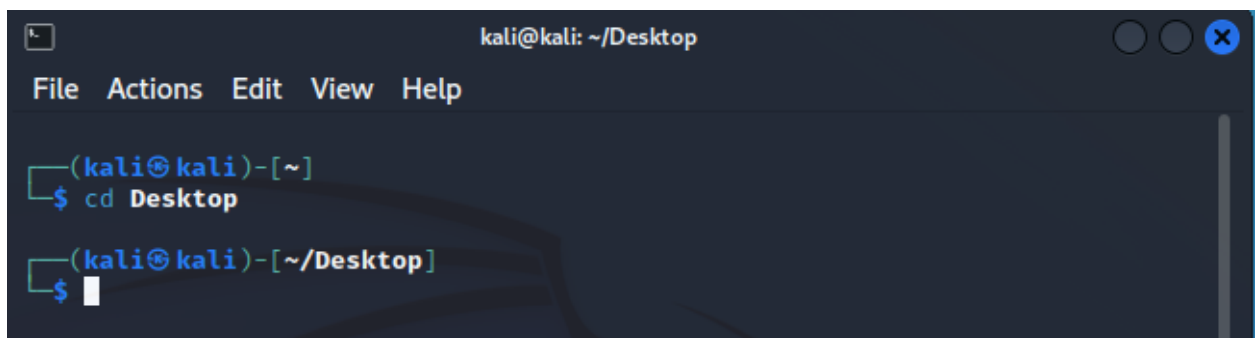
used to know which directory you are in.

A terminal window titled 'kali@kali: ~' with a menu bar (File, Actions, Edit, View, Help). The prompt is '(kali@kali)-[~]'. The command '\$ pwd' has been entered, and the output is '/home/kali'. The prompt is now '\$ ' with a cursor at the end.

```
kali@kali: ~  
File Actions Edit View Help  
(kali@kali)-[~]  
$ pwd  
/home/kali  
(kali@kali)-[~]  
$
```

3. cd:

change current directory.

A terminal window titled 'kali@kali: ~/Desktop' with a menu bar (File, Actions, Edit, View, Help). The prompt is '(kali@kali)-[~]'. The command '\$ cd Desktop' has been entered, and the output is '~/. Desktop'. The prompt is now '\$ ' with a cursor at the end.

```
kali@kali: ~/Desktop  
File Actions Edit View Help  
(kali@kali)-[~]  
$ cd Desktop  
(kali@kali)-[~/Desktop]  
$
```

4. **mkdir:**

Create new directory.

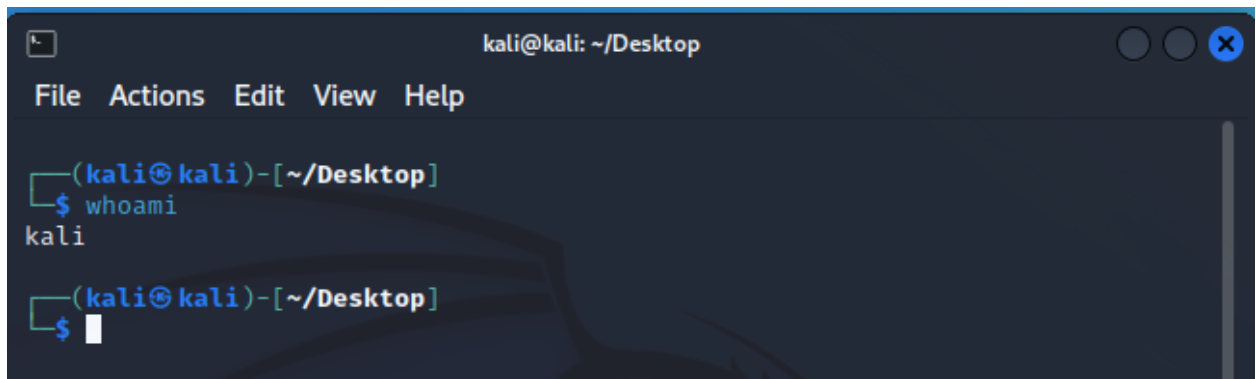
```
(kali㉿kali)-[~/Desktop]
$ mkdir myfolder

(kali㉿kali)-[~/Desktop]
$ ls
a.out  myfolder  test.c

(kali㉿kali)-[~/Desktop]
$
```

5. **whoami:**

used to know the current user name.

A terminal window titled 'kali@kali: ~/Desktop' with a menu bar (File, Actions, Edit, View, Help). The terminal shows the command 'whoami' being executed, resulting in the output 'kali'.

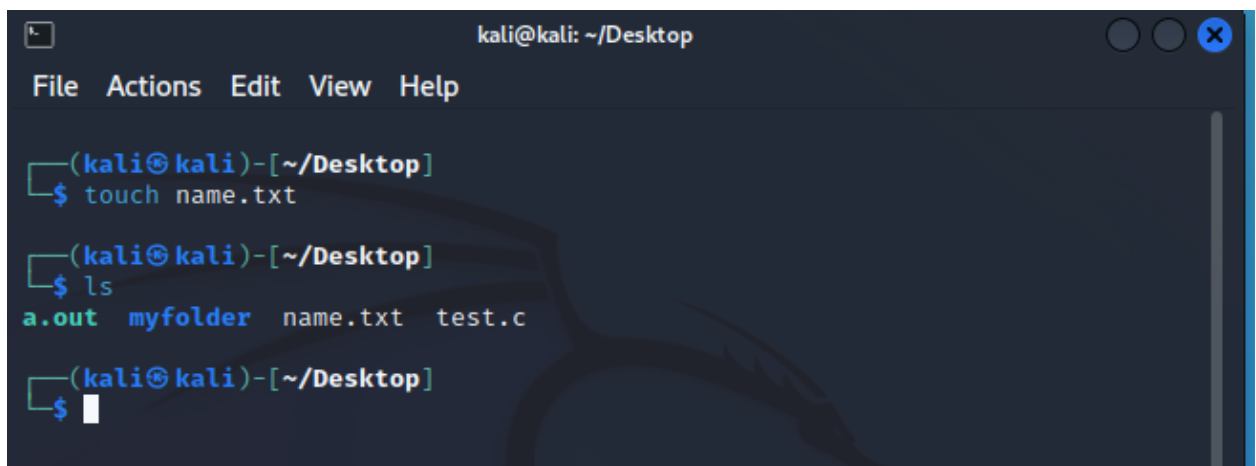
```
kali@kali: ~/Desktop
File Actions Edit View Help

(kali㉿kali)-[~/Desktop]
$ whoami
kali

(kali㉿kali)-[~/Desktop]
$
```

6. **touch:**

used to create a file.

A terminal window titled 'kali@kali: ~/Desktop' with a menu bar (File, Actions, Edit, View, Help). The terminal shows the command 'touch name.txt' being executed, followed by 'ls' which shows 'name.txt' in the directory listing.

```
kali@kali: ~/Desktop
File Actions Edit View Help

(kali㉿kali)-[~/Desktop]
$ touch name.txt

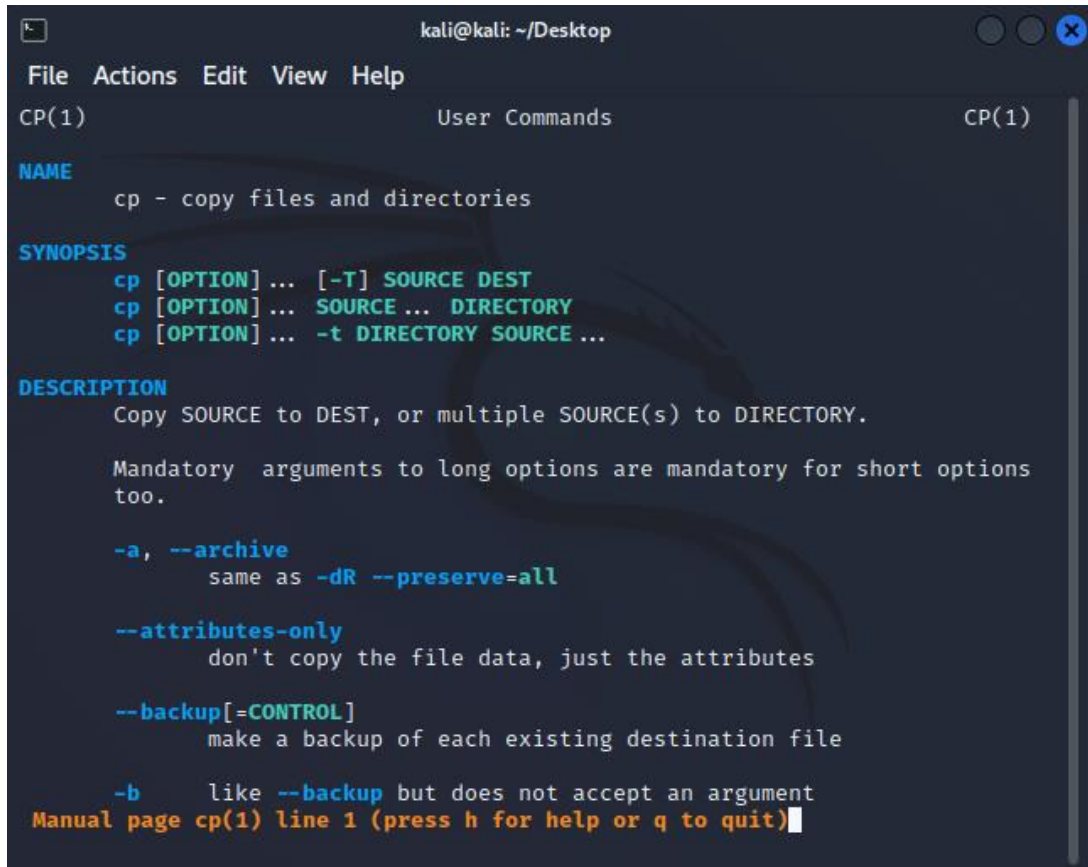
(kali㉿kali)-[~/Desktop]
$ ls
a.out  myfolder  name.txt  test.c

(kali㉿kali)-[~/Desktop]
$
```

7. **man:**

used to know more about a command.

E.g man cp



The screenshot shows a terminal window titled 'kali@kali: ~/Desktop'. The window contains the man page for the 'cp' command. The page is divided into sections: NAME, SYNOPSIS, and DESCRIPTION. The NAME section states 'cp - copy files and directories'. The SYNOPSIS section shows three command formats: 'cp [OPTION]... [-T] SOURCE DEST', 'cp [OPTION]... SOURCE... DIRECTORY', and 'cp [OPTION]... -t DIRECTORY SOURCE...'. The DESCRIPTION section explains that 'cp' copies SOURCE to DEST, or multiple SOURCE(s) to DIRECTORY. It also lists several options: '-a, --archive' (same as -dR --preserve=all), '--attributes-only' (don't copy the file data, just the attributes), '--backup[=CONTROL]' (make a backup of each existing destination file), and '-b' (like --backup but does not accept an argument). The page ends with 'Manual page cp(1) line 1 (press h for help or q to quit)'.

```
kali@kali: ~/Desktop
File Actions Edit View Help
CP(1) User Commands CP(1)

NAME
    cp - copy files and directories

SYNOPSIS
    cp [OPTION]... [-T] SOURCE DEST
    cp [OPTION]... SOURCE... DIRECTORY
    cp [OPTION]... -t DIRECTORY SOURCE...

DESCRIPTION
    Copy SOURCE to DEST, or multiple SOURCE(s) to DIRECTORY.

    Mandatory arguments to long options are mandatory for short options
    too.

    -a, --archive
        same as -dR --preserve=all

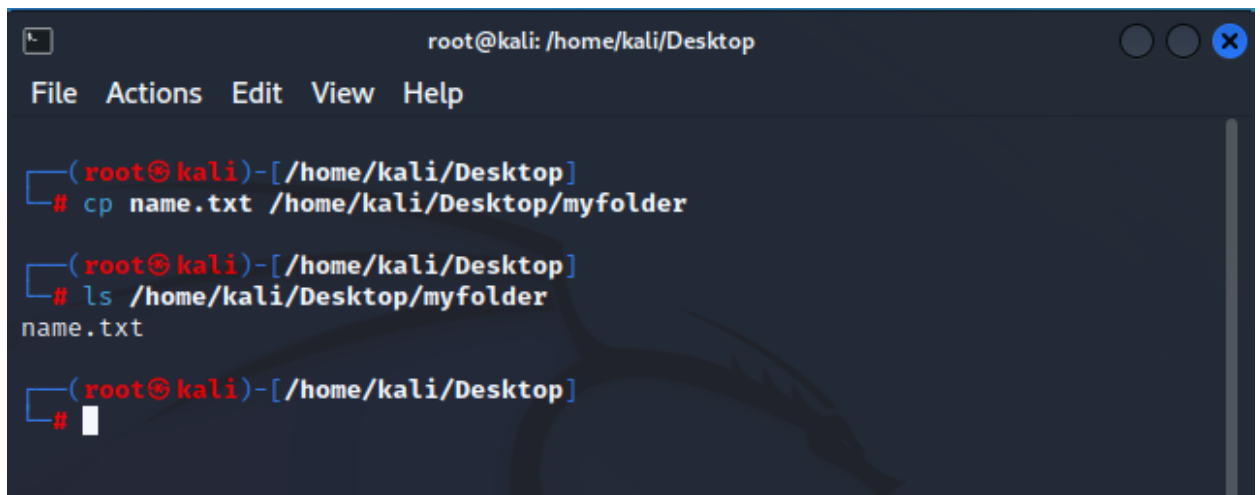
    --attributes-only
        don't copy the file data, just the attributes

    --backup[=CONTROL]
        make a backup of each existing destination file

    -b
        like --backup but does not accept an argument
Manual page cp(1) line 1 (press h for help or q to quit)
```

8. **cp:**

used to copy file from one location to another.



The screenshot shows a terminal window titled 'root@kali: /home/kali/Desktop'. The window contains three lines of command execution. The first line shows the prompt '(root@kali)-[/home/kali/Desktop]' followed by the command '# cp name.txt /home/kali/Desktop/myfolder'. The second line shows the prompt '(root@kali)-[/home/kali/Desktop]' followed by the command '# ls /home/kali/Desktop/myfolder', which outputs 'name.txt'. The third line shows the prompt '(root@kali)-[/home/kali/Desktop]' followed by the command '#', with a cursor on the next line.

```
root@kali: /home/kali/Desktop
File Actions Edit View Help

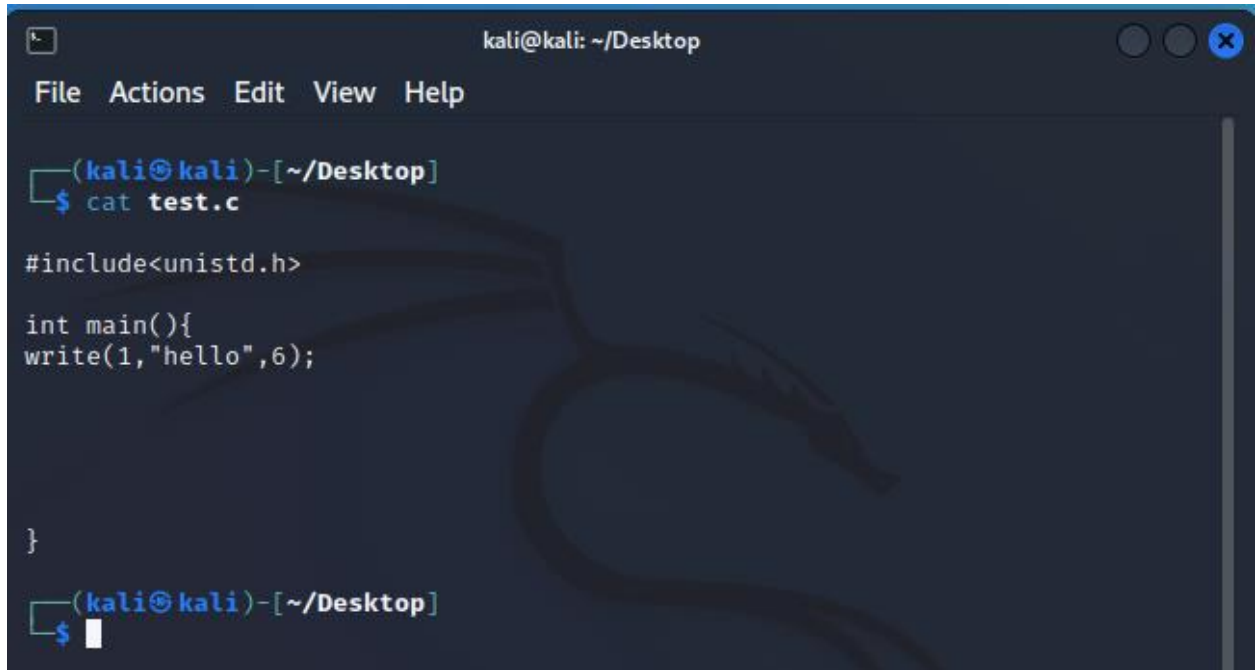
(root@kali)-[/home/kali/Desktop]
# cp name.txt /home/kali/Desktop/myfolder

(root@kali)-[/home/kali/Desktop]
# ls /home/kali/Desktop/myfolder
name.txt

(root@kali)-[/home/kali/Desktop]
#
```

9. Cat:

Used to display the content of the file.



```
kali@kali: ~/Desktop
File Actions Edit View Help

(kali@kali)-[~/Desktop]
$ cat test.c

#include<unistd.h>

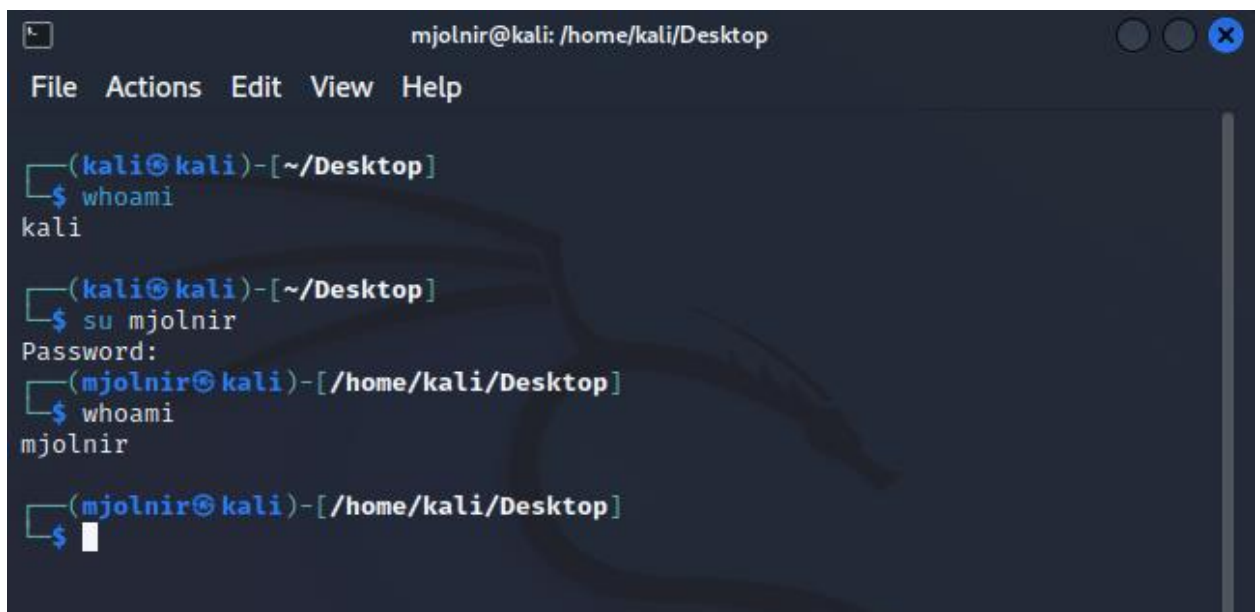
int main(){
write(1,"hello",6);

}

(kali@kali)-[~/Desktop]
$
```

10. Su:

Used to switch user.



```
mjolnir@kali: /home/kali/Desktop
File Actions Edit View Help

(kali@kali)-[~/Desktop]
$ whoami
kali

(kali@kali)-[~/Desktop]
$ su mjolnir
Password:
(mjolnir@kali)-[/home/kali/Desktop]
$ whoami
mjolnir

(mjolnir@kali)-[/home/kali/Desktop]
$
```

11. top:

used to show all processes.

```
kali@kali: ~/Desktop
File Actions Edit View Help
top - 04:41:50 up 8 min, 1 user, load average: 0.02, 0.08, 0.06
Tasks: 192 total, 1 running, 191 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.7 us, 0.6 sy, 0.0 ni, 98.6 id, 0.1 wa, 0.0 hi, 0.0 si, 0.0
MiB Mem : 1972.9 total, 929.5 free, 614.5 used, 428.8 buff/cache
MiB Swap: 1024.0 total, 1024.0 free, 0.0 used. 1208.4 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM    TIME+
682  root        20   0 361444 102732 55960 S   6.0   5.1   0:18.61
1176 kali        20   0 475328 58456 36644 S   0.7   2.9   0:02.06
1178 kali        20   0 210128 35704 18348 S   0.7   1.8   0:04.18
1620 kali        20   0 463516 102284 83764 S   0.7   5.1   0:02.06
3741 kali        20   0 10184 3700 3092 R   0.7   0.2   0:00.02
15  root        20   0      0      0      0 I   0.3   0.0   0:00.83
468  root        20   0 167380 10508 7112 S   0.3   0.5   0:02.72
1128 kali        20   0 1226028 105940 77048 S   0.3   5.2   0:03.68
1180 kali        20   0 358416 30644 20984 S   0.3   1.5   0:02.38
1293 kali        20   0 289976 41032 30316 S   0.3   2.0   0:02.74
1  root        20   0 167464 12056 8936 S   0.0   0.6   0:01.80
2  root        20   0      0      0      0 S   0.0   0.0   0:00.02
3  root        0 -20      0      0      0 I   0.0   0.0   0:00.00
4  root        0 -20      0      0      0 I   0.0   0.0   0:00.00
5  root        0 -20      0      0      0 I   0.0   0.0   0:00.00
6  root        0 -20      0      0      0 I   0.0   0.0   0:00.00
8  root        0 -20      0      0      0 I   0.0   0.0   0:00.00
10  root        0 -20      0      0      0 I   0.0   0.0   0:00.00
11  root        20   0      0      0      0 I   0.0   0.0   0:00.00
12  root        20   0      0      0      0 I   0.0   0.0   0:00.00
```

Conclusion:

Hence, the objectives of the lab were successfully completed.