Session 9 Bash commands

Use ./filename.sh to run a any file.

```
filename.sh
  Open
                                  Save
                                                  FI.
 1 cd w1
 2 rm -rf tests
 3 mkdir tests
 4 touch ./tests/file2.{1..10}
 5 cd tests
 6 echo 'hello' > file2.1
 7 cp file2.1 file2.2
 8 cp file2.2 > file2.3 file2.4
                sh ▼ Tab Width: 8 ▼
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                                                     INS
user@user-virtual-machine: $ ./filename.sh
user@user-virtual-machine:~$ cd w1
user@user-virtual-machine:~/w1$ ls
empty.txt file21
                     file22
                              file23
                                        file24
file2.1
           file2.2
                     file2.3 file2.4 tests
user@user-virtual-machine:~/w1$ cat file2.4
hello
user@user-virtual-machine:~/w1$ cat file2.3
user@user-virtual-machine:~/w1$ cat file2.2
hello
user@user-virtual-machine:~/w1$
```

Use **ps** to display the **current running process** and **kill process ID** to kill the process or use **kill -9 process ID** (-9 to kill process forcefully).

```
user@user-virtual-machine:~$ ps

PID TTY TIME CMD

85996 pts/0 00:00:01 bash

113236 pts/0 00:00:00 ps
```

```
user@user-virtual-machine:~$ ps
PID TTY TIME CMD
85996 pts/0 00:00:01 bash
113236 pts/0 00:00:00 ps
user@user-virtual-machine:~$ kill 85996
user@user-virtual-machine:~$ kill -9 85996
```

Use **ps** -f to display **full info about the process. PID** is **process id** and **PPID** is **Parent Process ID**.

```
user@user-virtual-machine:~$ ps -f
UID PID PPID C STIME TTY TIME CMD
user 113259 113251 0 11:54 pts/0 00:00:00 bash
user 113273 113259 0 11:55 pts/0 00:00:00 ps -f
```

Use **ps -e** display all the **process past or present** running in the system.

```
user@user-virtual-machine: $ ps -e
   PID TTY
                    TIME CMD
     1 ?
               00:00:50 systemd
     2 ?
               00:00:00 kthreadd
     3 ?
                00:00:00 rcu gp
                00:00:00 rcu par qp
     4 ?
     6 ?
                00:00:00 kworker/0:0H-events highpri
                00:00:00 mm_percpu_wq
     8 ?
                00:00:00 rcu tasks rude
     9 ?
    10 ?
                00:00:00 rcu tasks trace
                00:00:07 ksoftirgd/0
    11 ?
    12 ?
                00:01:22 rcu sched
    13 ?
                00:00:04 migration/0
                00:00:00 idle inject/0
    14 ?
    16 ?
                00:00:00 cpuhp/0
    17 ?
                00:00:00 cpuhp/1
                00:00:00 idle inject/1
    18 ?
    19 ?
                00:00:08 migration/1
                00:00:07 ksoftirqd/1
    20 ?
                00:00:00 kworker/1:0H-events highpri
    22 ?
                00:00:00 kdevtmpfs
    23 ?
    24 ?
                00:00:00 netns
                00:00:00 inet frag wq
    25 ?
                00:00:00 kauditd
     26 ?
                00:00:00 khungtaskd
     30 ?
```