

Shell Programming

ASSIGNMENT 7

SUBMITTED BY ---

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SUBMITTED TO-

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bg – to send a process in background, fg – to run a stopped process in foreground

```
-(ashish500086363⊗ kali)-[~/assignment7]
  -$ sleep 500
[1]+ Stopped
                                          sleep 500
   –(ashish500086363⊗kali)-[~/assignment7]
_$ bg
[1]+ sleep 500 &
  —(ashish500086363⊛kali)-[~/assignment7]
 -$ fg
sleep 500
^x^z
[1]+ Stopped
                                          sleep 500
   -(ashish500086363⊗ kali)-[~/assignment7]
   —(ashish500086363⊛kali)-[~/assignment7]
 _$ jobs
[1]+ Stopped
                                          sleep 500
top – details on all active processes
top - 13:13:26 up 2:27, 3 users, load average: 0.60, 0.55, 0.54
Tasks: 294 total, 1 running, 290 sleeping, 3 stopped, 0 zombie %Cpu(s): 0.1 us, 0.0 sy, 0.0 ni, 99.9 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 5995.8 total, 4020.2 free, 1227.3 used, 748.4 buff/cache
MiB Swap: 975.0 total,
                         975.0 free,
                                            0.0 used. 4498.2 avail Mem
   PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
   1007 root 20 0 1241068 106712 54348 S
                                               3.3 1.7 0:13.75 Xorg
  22831 ashish5+ 20 0 1268864 77732 60480 S 1.0 1.3 0:01.76 qterminal
  22761 ashish5+ 20 0 291284 38156 29492 S 0.3 0.6 0:18.07 vmtoolsd
  22898 ashish5+ 20 0 361972 44164 24840 S 0.3 0.7 0:00.30 blueman-tray
 24665 root 20 0 0 0 0 I 0.3 0.0 0:08.69 kworker/1:4-pm
25285 root 20 0 0 0 0 I 0.3 0.0 0:00.09 kworker/3:1-events
1 root 20 0 164156 10508 7844 S 0.0 0.2 0:03.19 systemd
2 root 20 0 0 0 0 S 0.0 0.0 0:00.03 kthreadd
```

ps- give the status of processes running for a user

ps Pid-give the status of particular process

```
ashish500086363⊗ kali)-[~/assignment7]

$ ps 22911

PID TTY STAT TIME COMMAND

22911 pts/0 Ss 0:00 /bin/bash
```

pidof-give the process id of a processes

```
(ashish500086363⊗ kali)-[~/assignment7]

$ pidof bash

24963 23944 22911
```

kill pid- kills the process

```
      (ashish500086363 ⊗ kali) - [~/assignment7]

      $ kill -9 25354

      (ashish500086363 ⊗ kali) - [~/assignment7]

      $ ps

      PID TTY
      TIME CMD

      22911 pts/0
      00:00:00 bash

      25357 pts/0
      00:00:00 top

      25370 pts/0
      00:00:00 ps

      [1] - Killed
      sleep 500
```

nice-starts a process with given priority

```
(ashish500086363⊕ kali)-[~/assignment7]
$ nice -n 5 bash
(ashish500086363⊕ kali)-[~/assignment7]
$ top
top - 13:17:13 up 2:31, 3 users, load average: 0.73, 0.58, 0.55
Tasks: 292 total, 1 running, 288 sleeping, 3 stopped, 0 zombie
%Cpu(s): 0.3 us, 0.0 sy, 0.0 ni, 99.6 id, 0.0 wa, 0.0 hi, 0.1 si, 0.0 st
MiB Mem: 5995.8 total, 4017.2 free, 1230.0 used, 748.6 buff/cache
MiB Swap: 975.0 total, 975.0 free, 0.0 used. 4495.4 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S 9	%CPU	%MEM	TIME+	COMMAND
1007	root	20	0	1241068	106712	54348	S	3.0	1.7	0:15.22	Xorg
22831	ashish5+	20	0	1268864	77732	60480	S	1.0	1.3	0:02.37	qterminal
22761	ashish5+	20	0	292312	39208	29492	S	0.7	0.6	0:18.57	vmtoolsd
12	root	20	0	0	0	0	I	0.3	0.0	0:03.69	rcu_sched
579	root	20	0	237716	9676	6520	S	0.3	0.2	0:17.80	vmtoolsd
22679	ashish5+	20	0	1271632	81324	59048	S	0.3	1.3	0:01.97	xfwm4
22725	ashish5+	20	0	434100	104868	47788	S	0.3	1.7	0:02.94	xfdesktop
22754	ashish5+	20	0	510828	41044	33020	S	0.3	0.7	0:08.88	panel-17-pulsea
23337	kali	20	0	510848	40116	32044	S	0.3	0.7	0:08.21	panel-17-pulsea
24960	root	20	0	0	0	0	I	0.3	0.0	0:00.10	kworker/u64:0-flush-8:0
25277	root	20	0	0	0	0	D	0.3	0.0	0:01.26	kworker/1:0+usb_hub_wq
25284	root	20	0	0	0	0	I	0.3	0.0	0:00.27	kworker/2:0-events
25391	ashish5+	25	5	10240	3980	3220	R	0.3	0.1	0:00.01	top
-			-				-				The state of the s

renice-changes priority of an already running process

df-gives free hard disk space on your system

```
-(ashish500086363% kali)-[~/assignment7]
 −$ df
Filesystem
              1K-blocks
                           Used Available Use% Mounted on
udev
                                  3033696 0% /dev
                3033696
                              0
tmpfs
                 613976
                           1352
                                   612624 1% /run
               81000912 10463052 66377248 14% /
/dev/sda1
                                  3069868 0% /dev/shm
tmpfs
                3069868
                              0
tmpfs
                              0
                                     5120 0% /run/lock
                   5120
                                   613908 1% /run/user/1001
tmpfs
                 613972
                             64
tmpfs
                 613972
                             64 613908 1% /run/user/1000
                             68 613904 1% /run/user/1002
tmpfs
                 613972
```

free-give free ram on your system

```
-(ashish500086363⊗ kali)-[~/assignment7]
_$ free
             total
                        used
                                     free
                                             shared buff/cache
                                                                  available
           6139740
                       1260664
                                  4112524
                                              37640
                                                        766552
                                                                  4602212
Swap:
            998396
                                  998396
```