Working with Linux Process

1. Open a terminal. Now spawn three shell processes one after another i.e. first spawn one shell, then from the spawned shell, spawn one new shell and so on. Now, how can you see the PID of the current shell? How can you see the PID of the shell which is the grandparent of the current shell?

Ans: open a terminal enter command 'bash'
Enter bash again to get child terminal
To get PID of current terminal: echo \$\$
To get PID of grandparent : pstree -p | grep PID of current bash

2. How can you see all the processes (both system & user processes) in your computer? The output can be quite large. How can you view the output as multipage output? How can you store the output in a file named process info?

Ans:To view all the process: ps -ef
Multipage output: ps -ef | less
Ps -ef > process info

```
bgmadhavan@bgm-vir... ×
                          bgmadhavan@bgm-vir... ×
                                                    bgmadhavan@bgm-vir...
oot
           2435
                      2 0 11:31 ?
                                          00:00:24 [kworker/0:0-pm]
oot
                      2 0 11:36 ?
                                          00:00:03 [kworker/u256:2-events freez
ble_power_]
          2847
                   1236 0 11:41 ?
                                          00:00:01 gjs /usr/share/gnome-shell/e
tensions/ding@rastersoft.com/ding.js -E -P /usr/share/gnome-shell/extensions/di
g@rastersoft.com -M 0 -D 0:0:979:436:1:27:0:0:0:0
           2966
                      2 0 11:48 ?
                                          00:00:06 [kworker/1:2-events]
oot
oot
           3005
                      2 0 11:50 ?
                                          00:00:00 [kworker/1:3-events]
oot
          3246
                      2 0 12:19 ?
                                          00:00:01 [kworker/u256:3-events_freez
ble_power_]
oot
                      2 0 12:32 ?
                                          00:00:00 [kworker/u256:0-events_unbou
          3382
d]
                      2 0 12:37 ?
                                          00:00:00 [kworker/0:2-events]
oot
          3405
oot
          3410
                      2 0 12:42 ?
                                          00:00:00 [kworker/0:1-events]
gmadha+
          3429
                   1923 0 12:46 pts/0
                                          00:00:00 bash
          3435
                   1905 0 12:46 pts/1
                                          00:00:00 bash
gmadha+
amadha+
          3442
                   3435 0 12:46 pts/1
                                          00:00:00 bash
gmadha+
          3448
                   1905 0 12:46 pts/2
                                          00:00:00 bash
oot
          3473
                      2 0 12:49 ?
                                          00:00:00 [kworker/u256:1-flush-8:0]
gmadha+
          3474
                   3448 0 12:49 pts/2
                                          00:00:00 ps -ef
gmadha+
          3475
                   3448 0 12:49 pts/2
                                          00:00:00 less
```