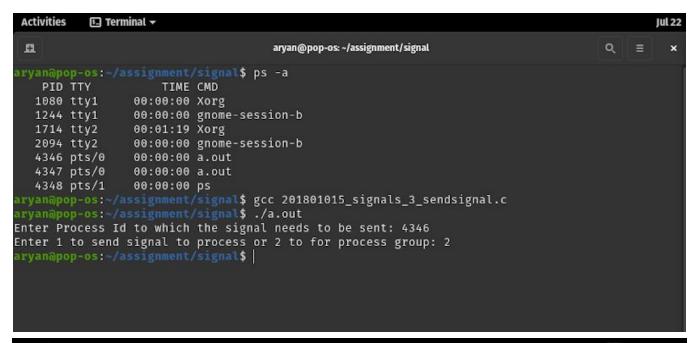
Assignment 2_3 Execution 1 Output:

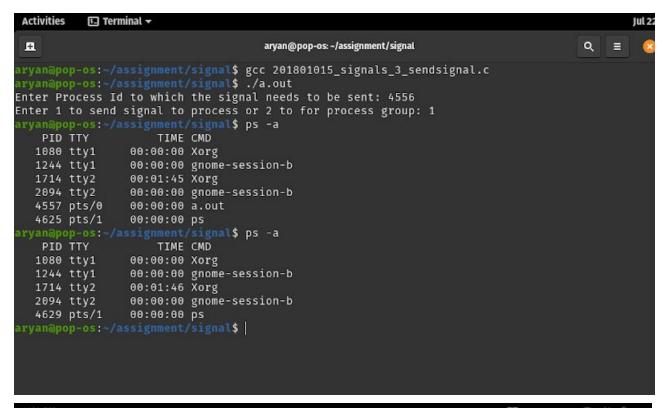
First we see all running processes. And kill the processes under parent group. All processes die and is confirmed by snap of running processes at the end.



```
4:06 PM
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 \blacksquare
                                     aryan@pop-os: ~/assignment/signal
aryan@pop-os:~/assignment/signal$ gcc 201801015_signals_3_receivesignal_samepgrp.c
aryan@pop-os:~/assignment/signal$ ./a.out
Parent PID = 4346, PGID = 4346
Child PID = 4347, PGID = 4346
Process id 4347 received SIGINT signal
Process id 4346 received SIGINT signal
aryan@pop-os:~/assignment/signal$ ps -a
    PID TTY
                     TIME CMD
   00:00:00 gnome-session-b
   2094 tty2
                 00:00:00 gnome-session-b
   4357 pts/0
                 00:00:00 ps
 ryan@pop-os:~/assignment/signal$
```

Assignment 2_3 Execution 2 Output:

First we see all running processes. And kill the parent process. Child process remains and is confirmed by snap of running processes at the end. We kill the child using kill. Similar results are seen if we send the signal to the child, it dies and the parent remains and needs to be killed using kill.



Assignment 2 3 Execution 3 Output:

First we see all running processes. Since parent and child belong to different groups the child will not die even if we send the signal to all processes under the parent group. It is confirmed by the snap of running processes.

```
Activities
           ■ Terminal ▼
                                                                                                Jul 22
                                      aryan@pop-os: ~/assignment/signal
 B
ryan@pop-os:~/assignment/signal$ ps -a
  PID TTY
                     TIME CMD
  4758 pts/0
                 00:00:00 a.out
  4761 pts/1
                 00:00:00 ps
aryan@pop-os:~/assignment/signal$ gcc 201801015_signals_3_sendsignal.c
aryan@pop-os:~/assignment/signal$ ./a.out
Enter Process Id to which the signal needs to be sent: 4757
Enter 1 to send signal to process or 2 to for process group: 2
aryan@pop-os:~/assignment/signal$
```

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4:18 PM
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  1
                                              aryan@pop-os: ~/assignment/signal
                                                                                                        Q
                                                                                                              8
 aryan@pop-os:~/assignment/signal$ gcc 201801015_signals_3_receivesignal_diffpgrp.c
 aryan@pop-os:~/assignment/signal$ ./a.out
Parent PID = 4757, PGID = 4757
Child PID = 4758, PGID = 4758
Process id 4757 received SIGINT signal
 aryan@pop-os:~/assignment/signal$ ps -a
     PID TTY
                          TIME CMD
    4758 pts/0 00:00:00 a.out
    4801 pts/0 00:00:00 ps
aryan@pop-os:~/assignment/signal$ kill 4758
aryan@pop-os:~/assignment/signal$ ps -a
    PID TTY TIME CMD

1080 tty1 00:00:00 Xorg

1244 tty1 00:00:00 gnome-session-b

1714 tty2 00:01:57 Xorg

2094 tty2 00:00:00 gnome-session-b

4802 pts/0 00:00:00 ps
     PID TTY
                          TIME CMD
 aryan@pop-os:~/assignment/signal$
```