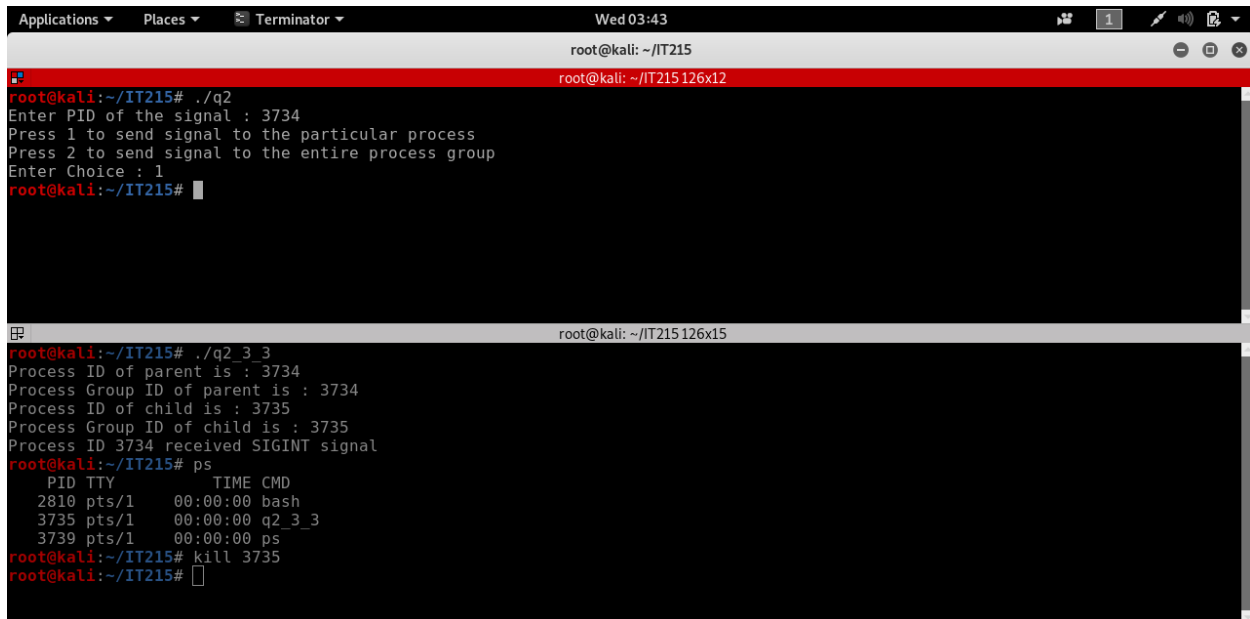


Output for 201801408_signals_3_receivesignal_diffpgrp

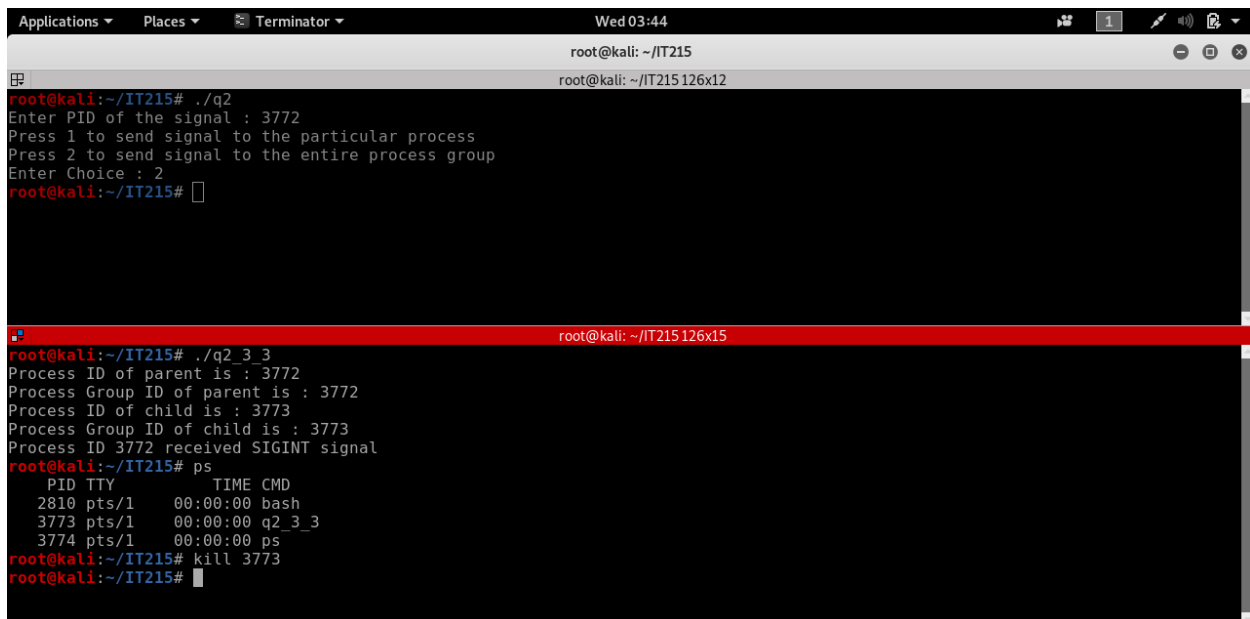
The following screenshots depict all possible output cases for the given program



The screenshot shows a terminal window titled "Terminator" with a window size of 126x12. The user is root@kali: ~/IT215. The program ./q2 is executed, prompting for a signal PID (3734) and a choice (1). The program then displays process information for parent and child processes, and finally sends a SIGINT signal to PID 3734.

```
root@kali:~/IT215# ./q2
Enter PID of the signal : 3734
Press 1 to send signal to the particular process
Press 2 to send signal to the entire process group
Enter Choice : 1
root@kali:~/IT215#
```

```
root@kali:~/IT215# ./q2_3_3
Process ID of parent is : 3734
Process Group ID of parent is : 3734
Process ID of child is : 3735
Process Group ID of child is : 3735
Process ID 3734 received SIGINT signal
root@kali:~/IT215# ps
  PID TTY          TIME CMD
 2810 pts/1    00:00:00 bash
 3735 pts/1    00:00:00 q2_3_3
 3739 pts/1    00:00:00 ps
root@kali:~/IT215# kill 3735
root@kali:~/IT215#
```



The screenshot shows a terminal window titled "Terminator" with a window size of 126x15. The user is root@kali: ~/IT215. The program ./q2 is executed, prompting for a signal PID (3772) and a choice (2). The program then displays process information for parent and child processes, and finally sends a SIGINT signal to PID 3772.

```
root@kali:~/IT215# ./q2
Enter PID of the signal : 3772
Press 1 to send signal to the particular process
Press 2 to send signal to the entire process group
Enter Choice : 2
root@kali:~/IT215#
```

```
root@kali:~/IT215# ./q2_3_3
Process ID of parent is : 3772
Process Group ID of parent is : 3772
Process ID of child is : 3773
Process Group ID of child is : 3773
Process ID 3772 received SIGINT signal
root@kali:~/IT215# ps
  PID TTY          TIME CMD
 2810 pts/1    00:00:00 bash
 3773 pts/1    00:00:00 q2_3_3
 3774 pts/1    00:00:00 ps
root@kali:~/IT215# kill 3773
root@kali:~/IT215#
```

```
Applications ▾ Places ▾ Terminator ▾ Wed 03:45
root@kali: ~/IT215
root@kali: ~/IT215 126x12
root@kali:~/IT215# ./q2
Enter PID of the signal : 3812
Press 1 to send signal to the particular process
Press 2 to send signal to the entire process group
Enter Choice : 1
root@kali:~/IT215# ./q2
Enter PID of the signal : 3811
Press 1 to send signal to the particular process
Press 2 to send signal to the entire process group
Enter Choice : 1
root@kali:~/IT215#

root@kali:~/IT215# ./q2_3_3
Process ID of parent is : 3811
Process Group ID of parent is : 3811
Process ID of child is : 3812
Process Group ID of child is : 3812
Process ID 3812 received SIGINT signal
Process ID 3811 received SIGINT signal
root@kali:~/IT215#
```

```
Applications ▾ Places ▾ Terminator ▾ Wed 03:48
root@kali: ~/IT215
root@kali: ~/IT215 126x12
root@kali:~/IT215# ./q2
Enter PID of the signal : 3904
Press 1 to send signal to the particular process
Press 2 to send signal to the entire process group
Enter Choice : 1
root@kali:~/IT215# ./q2
Enter PID of the signal : 3903
Press 1 to send signal to the particular process
Press 2 to send signal to the entire process group
Enter Choice : 2
root@kali:~/IT215#

root@kali:~/IT215# ./q2_3_3
Process ID of parent is : 3903
Process Group ID of parent is : 3903
Process ID of child is : 3904
Process Group ID of child is : 3904
Process ID 3904 received SIGINT signal
Process ID 3903 received SIGINT signal
root@kali:~/IT215#
```

```
Applications ▾ Places ▾ Terminator ▾ Wed 03:48
root@kali: ~/IT215
root@kali: ~/IT215 126x12
root@kali:~/IT215# ./q2
Enter PID of the signal : 3944
Press 1 to send signal to the particular process
Press 2 to send signal to the entire process group
Enter Choice : 2
root@kali:~/IT215# ./q2
Enter PID of the signal : 3943
Press 1 to send signal to the particular process
Press 2 to send signal to the entire process group
Enter Choice : 1
root@kali:~/IT215#

root@kali:~/IT215# ./q2_3_3
Process ID of parent is : 3943
Process Group ID of parent is : 3943
Process ID of child is : 3944
Process Group ID of child is : 3944
Process ID 3944 received SIGINT signal
Process ID 3943 received SIGINT signal
root@kali:~/IT215#
```

```
Applications ▾ Places ▾ Terminator ▾ Wed 03:49
root@kali: ~/IT215
root@kali: ~/IT215 126x12
root@kali:~/IT215# ./q2
Enter PID of the signal : 3982
Press 1 to send signal to the particular process
Press 2 to send signal to the entire process group
Enter Choice : 2
root@kali:~/IT215# ./q2
Enter PID of the signal : 3981
Press 1 to send signal to the particular process
Press 2 to send signal to the entire process group
Enter Choice : 2
root@kali:~/IT215#

root@kali:~/IT215# ./q2_3_3
Process ID of parent is : 3981
Process Group ID of parent is : 3981
Process ID of child is : 3982
Process Group ID of child is : 3982
Process ID 3982 received SIGINT signal
Process ID 3981 received SIGINT signal
root@kali:~/IT215#
```