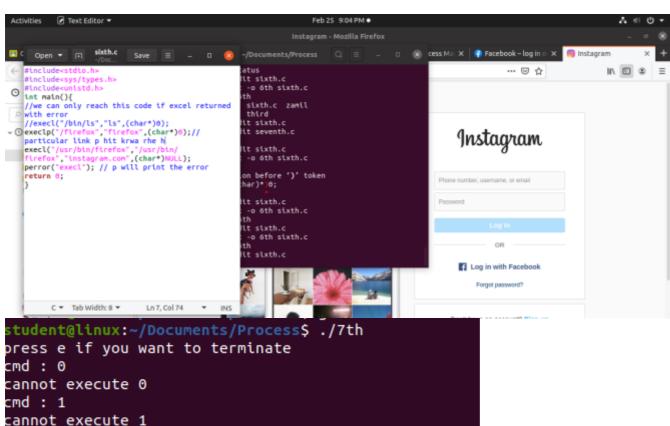
```
tudent@linux:~/Documents/Process$ ps
7050 pts/0
7275 pts/0
                 00:00:00 ps
tudent@linux:~/Documents/Process$ ps el

UID PID PPID PRI NI VSZ RSS WCHAN STAT TTY

1880 2886 1959 20 0 164288 6656 poll_s Ssl+ tty2
                 1959 20
2006 20
                                                                              0:00 /usr/lib/gd
                              0 301424 53636 ep_pol Sl+
0 189824 13784 poll_s Sl+
                                                                              0:00 /usr/lib/gn
                              0 11428 5352 do_wai Ss
0 11704 3164 - R+
                                                                              0:00 bash SSH_AU
                                                                              0:00 ps el SHELL
tudent@linux:~/Documents/Process$ ps -el
S UID PID PPID C PRI NI ADDR SZ WCHAN TTY
                                                                          TIME CMD
                                                                     00:00:05 systemd
00:00:00 kthreadd
                              60 -20 -
60 -20 -
                                                                     00:00:00 rcu_gp
00:00:00 rcu_par_gp
00:00:00 kworker/0:0H-kblockd
                                                                     00:00:00 mm_percpu_wq
               9
                                                                     00:00:01 rcu_sched
                                                                     00:00:00 migration/0
00:00:00 idle_inject/0
                                                                     00:00:00 cpuhp/0
                                                                     00:00:00 cpuhp/1
00:00:00 idle_inject/1
                                                                     00:00:00 migration/:
                                                                     00:00:00 ksoftirqd/1
                                                                     00:00:00 kworker/1:0H-kblockd
                                                                     00:00:00 cpuhp/2
00:00:00 idle_inject/2
                                                                     00:00:00 migration/2
00:00:00 Cpunp/1.
                                                                               00:00:00 idle_inject/12
                                                                               00:00:00 migration/12
                                                                               00:00:00 ksoftirqd/12
                 84
                                                                               00:00:00 kworker/12:0H-kblockd
                                         2θ -
                                                                               00:00:00 cpuhp/13
                                                                               00:00:00 idle_inject/13
                                                                               00:00:00 migration/13
00:00:00 ksoftirqd/13
                                                                               00:00:00 kworker/13:0H-kblockd
                                                                               00:00:00 cpuhp/14
                                                                               00:00:00 idle_inject/14
00:00:00 migration/14
                 94
                                                                               00:00:00 ksoftirgd/14
                                                                               00:00:00 kworker/14:0H-kblockd
                                                                               00:00:00 cpuhp/15
00:00:00 idle_inject/15
                                    9
                                                                               00:00:00 migration/15
                                          θ -
                                                                               00:00:00 ksoftirqd/15
               102
                                                                               00:00:00 kworker/15:0H-kblockd
00:00:00 kdevtmpfs
               104
                                         θ -
               106
                                                                               00:00:00 netns
                                                                               00:00:00 rcu_tasks_kthre 00:00:00 kauditd
               108
                                                                               00:00:00 khungtaskd
                                                                               00:00:00 oom_reaper
                                                                               00:00:00 writeback
00:00:00 kcompactd0
               113
               114
                                                                               00:00:00 ksmd
                                                                               00:00:00 khugepaged
                                                                               00:00:00 kintegrityd
                                   60
                                                                               00:00:00 kblockd
                                                                               00:00:00 blkcg_punt_bio
                                                                               00:00:00 kworker/11:1-events
                                                                               00:00:00 tpm_dev_wq
00:00:00 ata_sff
               214
                                        - 20
```

```
tudent@linux:~/Documents/Process$ pstree
        -acpld
        -avahi-daemon--avahi-daemon
        -boltd---2*[{boltd}]
-colord---2*[{colord}]
-containerd---25*[{containerd}]
        -cron
        -cups-browsed--2*[{cups-browsed}]
        -cupsd
        -dockerd---25*[{dockerd}]
        -fwupd---4*[{fwupd}]
        -gdm3--gdm-session-wor--gdm-x-session--Xorg---3*[{Xorg}]
                                              gnome-session-b ssh-agent
2*[{gnome-session-b}]
                                              L-2*[{gdm-x-session}]
                               -2*[{gdm-session-wor}]
        L2*[{gdm3}]
—gnome-keyring-d——3*[{gnome-keyring-d}]
—irqbalance——{irqbalance}
        -2*[kerneloops]
        -networkd-dispat
        -polkitd---2*[{polkitd}]
-rsyslogd---3*[{rsyslogd}]
-rtkit-daemon---2*[{rtkit-daemon}]
        -rtkit-daemon 2 ()
-snapd 34*[{snapd}]
-systemd (sd-pam)
-at-spi-bus-laun dbus-daemon
-3*[{at-spi-bus-laun}]
-arfst-spi2-registr}]
                 -dbus-daemon
student@linux:~/Documents/Process$ ./ab
before forking
creating child process
Iam a parent process
 getppid: 7050
Iam a child process
 getpid: 8659student@linux:~/Documents/Process$
student@linux:~/Documents/Process$ ./zamil
before forking
creating child process
THe value of parent process variable 2
In parent process: y=15
after forking
THe value of child process variable 3
In child process: y=12
after forking
student@linux:~/Documents/Process$ gcc -o
                                                            third file3.c
student@linux:~/Documents/Process$ ./third
34
1
student@linux:~/Documents/Process$
```

```
student@linux: ~
                                                                       Q ≡
                                              θ -
         0
           8779
                          8
                              80
                                     0 -
                                                                    00:00:00 kworker/15:0-e
                       2
                                    0 -
 1
         0
            8781
                          0
                              80
                                              0 -
                                                                    00:00:00 kworker/0:0-me
Θ
Θ
                    2109
                                         97008 poll s
                                     0
                                                                    00:00:00 gvfsd-network
     1000
            8787
                           0
                              80
                                                                    00:00:00 gvfsd-dnssd
  s
      1000
            8805
                    2109
                           θ
                              80
                                     0 -
                                         78770 poll_s
  1
                          θ
                                    Θ-
        0
            8844
                              80
                                                                    00:00:00 kworker/5:0
Θ
  S
      1000
            8862
                    1981
                           Θ
                              80
                                     0
                                      - 265996 poll_s ?
                                                                    00:00:04 nautilus
  1
        0
            8873
                       2
                           θ
                              80
                                     0
                                              Θ-
                                                                    00:00:00 kworker/6:0-mm
  1
        0
            8909
                       2
                          Θ
                              80
                                     0 -
                                              0 -
                                                                    00:00:00 kworker/3:0-mm
  1
                          0
                                     0 -
        0 8962
                       2
                              80
                                              Θ-
                                                                   00:00:00 kworker/u32:1-
                                                                   00:00:00 kworker/11:1-m
  1
        0
            9228
                       2
                          0
                              80
                                    0 -
                                              0 -
                                                                   00:00:00 kworker/10:1-c
        0
            9261
                          0
                              80
                                     0 -
                                              0 -
                                                                   00:00:00 kworker/0:1-ev
  1
        Θ
            9502
                       2
                          θ
                              80
                                     0 -
                                              θ-
  1
                       2 0
        0 9504
                              80
                                    0 -
                                              θ -
                                                                    00:00:00 kworker/4:0-ev
  1
        0
            9548
                       2
                          Θ
                              80
                                    0 -
                                              θ-
                                                                    00:00:00 kworker/2:1-mm
                                                                    00:00:00 kworker/u32:2-
        0
            9570
                       2
                          Θ
                              80
                                     0 -
                                              θ
                                                                    00:00:00 Web Content
     1000 9605
                    2559 0
                              80
                                     0 - 596881 poll_s ?
  s
        0 9660
                       2 0 80
                                    0 -
                                                                    00:00:00 kworker/14:1-m
                                                                    00:00:00 kworker/9:2
  1
        0
            9665
                       2
                          0
                              80
                                    0 -
                                              0
                                                                    00:00:00 kworker/u32:3
        Θ
            9675
                          0
                              80
                                     0
                                              0
  S
     1000 9800
                    7039 0
                              80
                                     0
                                           2857 do_wai pts/1
                                                                    00:00:00 bash
                    7050 98
     1000 9835
                              80
                                     0 -
                                            620 -
                                                        pts/0
                                                                    00:00:11 4th
            9836 9835 0
9837 <u>9</u>800 0
     1000
                              80
                                     0 -
                                             Θ
                                                         pts/0
                                                                    00:00:00 4th <defunct>
  z
                                                                    00:00:00 ps
     1000
                              80
                                     0
                                           2926
                                                         pts/1
student@linux:~$
tudent@linux:~/Documents/Process$ gedit fourth.c
tudent@linux:~/Documents/Process$ gcc -o 4th fourth.c
tudent@linux:~/Documents/Process$ ./4th
ello from main
unning parent,PID=9835
erminating child, PID = 9836
                                                                              #include<unistd.h:
child
                                                                              #include<sys/wait.h>
 PID is 10287
 parent PID is 10286
                                                                            h.cint main(){
 parent
 PID is 10286student@linux:-/Documents/Process$ gedit fifth.c
                                                                                     int pid=fork():
                                                                                     tf(pld>0){
(org.gnome.gedit:10289): Gtk-MARNING **: 20:42:39.188: Negative content width -
6 (allocation 18, extents 12x12) while allocating gadget (node label, owner Gtk
                                                                                             wait(NULL);
                                                                                             sleep(10);
printf("\n parent");
                                                                                             printf("\n PID is %d",getpid()
org.gnome.gedit:10289): Gtk-HARNING **: 20:42:39.189: Negative content width -
(allocation 18, extents 12x12) while allocating gadget (node label, owner Gtk
                                                                              if(pid==0)
                                                                              rintf("\n child");
printf("\n PID is %d",getpid());
printf("\n parent PID is %d",getppid());
(org.gnome.gedit:10289): Gtk-MARNING **: 20:42:46.456: Negative content width -
6 (allocation 18, extents 12x12) while allocating gadget (node label, owner Gtk
                                                                              return 0;
(org.gnome.gedit:10289): Gtk-MARNING **: 20:42:46.456: Negative content width
6 (allocation 18, extents 12x12) while allocating gadget (node label, owner Gtk
Label)
student@linux:~/Documents/Process$ gcc -o 6th sixth.c
student@linux:~/Documents/Process$ ./6th
4th
        6th fifth.c file3.c lab4.c
                                                               sixth.c zamil
                file2.c fourth.c lab4.txt
5th
        ab
                                                               third
 student@linux:~/Documents/Process$
```



press e if you want to terminate
cmd : 0
cannot execute 0
cmd : 1
cannot execute 1
cmd : 2
cannot execute 2
cmd : 3
cannot execute 3
cmd : t
cannot execute t
cmd : e
student@linux:~/Documents/Process\$
ty of Comp..