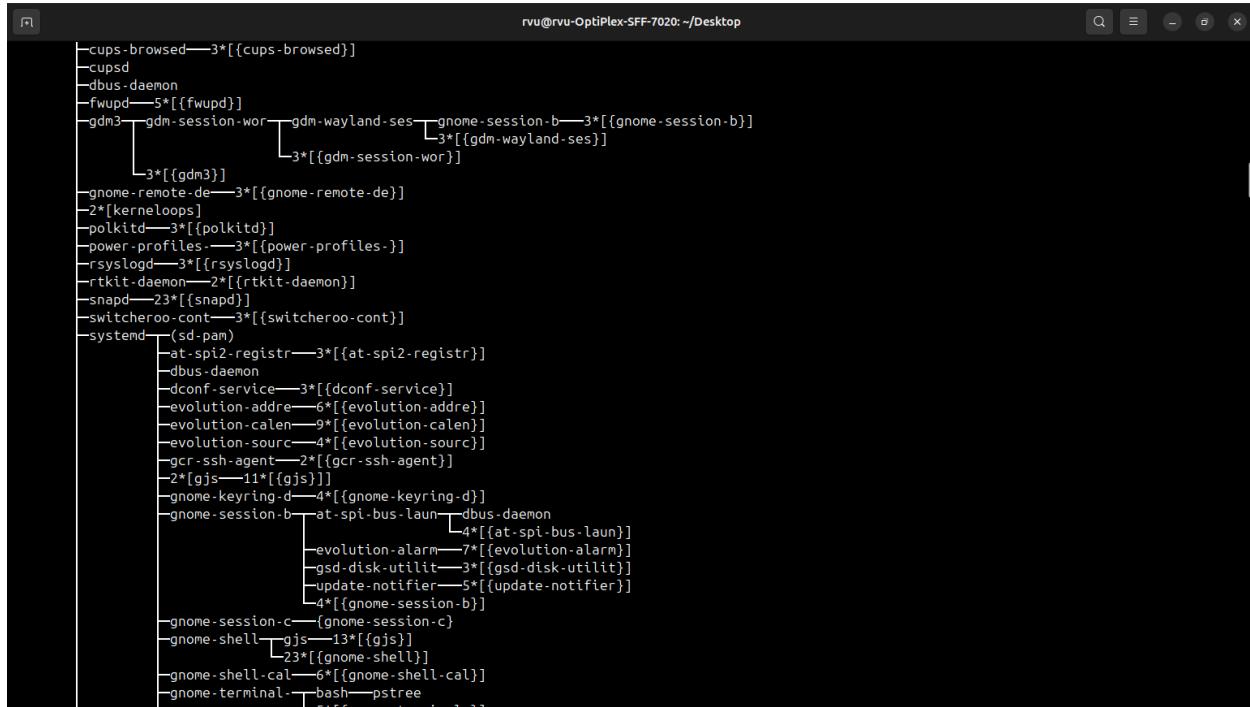


```
(base) rvu@rvu-OptiPlex-SFF-7020:~$ ls
admin_lab      dir      file20.txt    first.c      nano.10558.save  program      see_task.sh.save  test
admin_lab_exam documents file20.txt.save  home       notes1.txt    project      see_tasks.sh     third
admin_log.txt   Documents file21.txt    HTEAML      notes2.txt    project.txt  see_tasks.sh.save  third.c
anaconda3      Downloads file2.txt     it_support_task.sh  notes_back  Public      snap          todo.txt
are           draft1.txt  file2.txt.save kinthan    out        remove_words1.txt study      studyfolder  'vs code'
are.c          draft2.txt  file30.txt    lab.sh     p1.c        remove_words.txt study_folder  'study_folder.sh'  Xvandald
ayush         file0.txt   file31.txt    lab.txt    p2.sh        RVUN25CSE400  support_lab  you
c             file10.txt  file31.txt   linux      pain.txt   Pictures      second      swap.c
C             file1110.txt file32.txt   logfile.txt  plan.txt   Section      secomd.c    system_admin_task.sh
cleaned_log.txt file12.txt  file33.txt   log.txt    poem.txt   sectionA    secound    system_admin_task.sh.save
cleaned_task.txt file15.txt  file3.txt   maanas    prg1.c     sectionC   sectionc  task1.txt
cleaned_text.txt file16.txt  file5.txt   math_copy.txt.save  priyanshu  sectionC   sectionC  task.txt
Desktop        file1.txt   file.txt    Music      progra,   see_task.sh  Templates
dhruv          file1.txt  file1.txt.save first     nano.10086.save
(base) rvu@rvu-OptiPlex-SFF-7020:~$ cd Desktop
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ mkdir Niranjana
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ ls
Anaconda3-2024.10-1-Linux-x86_64.sh  dataset_see.  dataset_see.zip  'New Folder 1'  Projects  sruj1.c  test
'C program'                           'dataset_see. (1)' 'New Folder'   Niranjana  Python   sruj2.c  vivaweb.html
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ pwd
/home/rvu/Desktop
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ ls -l
total 1094612
-rwxr-xr-x 1 rvu rvu 1102495056 May 14 2025 Anaconda3-2024.10-1-Linux-x86_64.sh
drwxrwxr-x 3 rvu rvu      4096 Oct 29 17:03 'C program'
drwx----- 2 rvu rvu      4096 May 14 2025 dataset_see.
drwx----- 2 rvu rvu      4096 May 14 2025 'dataset_see. (1)'
-rwxr-xr-x 1 rvu rvu  18319848 May 13 2025 dataset_see.zip
drwxrwxr-x 2 rvu rvu      4096 Sep 24 10:49 'New Folder'
drwxrwxr-x 2 rvu rvu      4096 Nov  5 12:54 'New Folder 1'
drwxrwxr-x 2 rvu rvu      4096 Feb 10 19:38 Niranjana
drwxrwxr-x 2 rvu rvu      4096 May 15 2025 Projects
drwxrwxr-x 4 rvu rvu      4096 Oct 14 14:46 Python
-rw-rw-r-- 1 rvu rvu      468 Jun  9 2025 sruj1.c
-rw-rw-r-- 1 rvu rvu     912 Jun  9 2025 sruj2.c
-rwxrwxr-x 1 rvu rvu  16128 Jun  9 2025 test
```

```
[?] rvu@rvu-OptiPlex-SFF-7020:~/Desktop
rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ ls -a
.  Anaconda3-2024.10-1-Linux-x86_64.sh  dataset_see.  dataset_see.zip  'New Folder 1'  Projects  sruj1.c  test
.. 'C program'                           'dataset_see. (1)' 'New Folder'   Niranjana  Python   sruj2.c  vivaweb.html
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ nano
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ gcc f1.c -o f1
f1.c:1:2: error: invalid preprocessing directive #icnlude; did you mean #include?
  1 | #icnlude <stdio.h>
  | ^~~~~~
  | include
f1.c:2:10: fatal error: conio.h: No such file or directory
  2 | #include <conio.h>
  | ^~~~~~
compilation terminated.
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ nano f1.c
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ gcc f1.c -o f1
f1.c:2:10: fatal error: conio.h: No such file or directory
  2 | #include <conio.h>
  | ^~~~~~
compilation terminated.
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ nano f1.c
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ gcc f1.c -o f1
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ ./f1
Hello World
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ nano f1.c
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ sleep 30
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ sleep 1
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ sleep &
[1] 3612
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ sleep: missing operand
Try 'sleep --help' for more information.
sleep 30 &
[2] 3613
[1]  Exit 1                  sleep
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ sleep 30&
[3] 3618
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ jobs
```

```
rvu@rvu-OptiPlex-SFF-7020: ~/Desktop
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ jobs
[2]- Done sleep 30
[3]+ Done sleep 30
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ notepad.exe
notepad.exe: command not found
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ jobs
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ ls
'Anaconda3-2024.10-1-Linux-x86_64.sh'  dataset_see.      dataset_see.zip  f1.c      'New Folder 1'  Projects  sruj1.c  test
'C program'                           'dataset_see. (1)'  fi          'New Folder'   Niranjan  Python    sruj2.c  vivaweb.html
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ cat f1.c
#include <stdio.h>
void main()
{
printf("Hello World");
}
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ jobs
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ fg
bash: fg: current: no such job
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ bg
bash: bg: current: no such job
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ ps
  PID TTY      TIME CMD
 3417 pts/0    00:00:00 bash
 3708 pts/0    00:00:00 ps
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ ps
  PID TTY      TIME CMD
 3417 pts/0    00:00:00 bash
 3709 pts/0    00:00:00 ps
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ pstree
systemd—ModemManager—3*[{ModemManager}]
|   └── NetworkManager—3*[{NetworkManager}]
|       ├── accounts-daemon—3*[{accounts-daemon}]
|       ├── avahi-daemon—avahi-daemon
|       ├── bluetoothd
|       ├── colord—3*[{colord}]
|       ├── cron
|       └── cups-browsed—3*[{cups-browsed}]
```



```

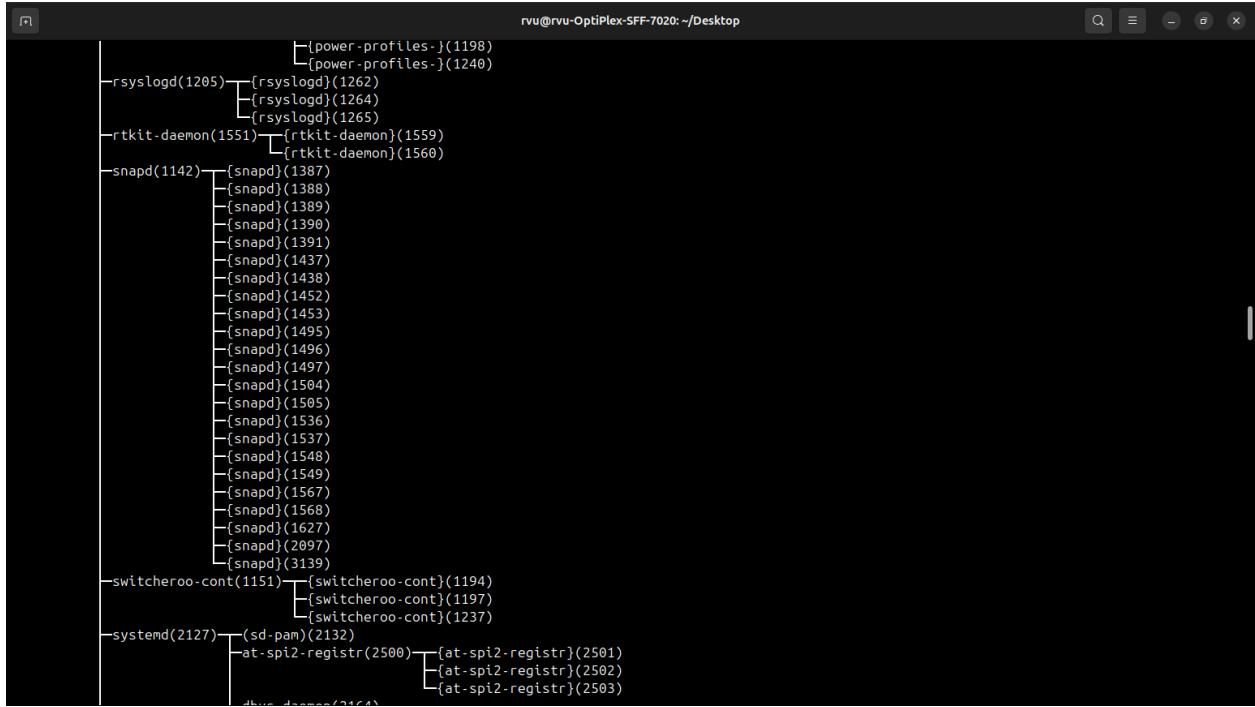
rvu@rvu-OptiPlex-SFF-7020: ~/Desktop
gnome-shell-cal---6*[{gnome-shell-cal}]
gnome-terminal---bash---pstree
      5*[{gnome-terminal-}]
goa-daemon---4*[{goa-daemon}]
goa-identity-se---3*[{goa-identity-se}]
gsd-a11y-settin---4*[{gsd-a11y-settin}]
gsd-color---4*[{gsd-color}]
gsd-datetime---4*[{gsd-datetime}]
gsd-housekeepin---4*[{gsd-housekeepin}]
gsd-keyboard---4*[{gsd-keyboard}]
gsd-media-keys---4*[{gsd-media-keys}]
gsd-power---4*[{gsd-power}]
gsd-print-notif---3*[{gsd-print-notif}]
gsd-printer---3*[{gsd-printer}]
gsd-rfkill---3*[{gsd-rfkill}]
gsd-screensaver---3*[{gsd-screensaver}]
gsd-sharing---4*[{gsd-sharing}]
gsd-smartcard---4*[{gsd-smartcard}]
gsd-sound---4*[{gsd-sound}]
gsd-wacom---4*[{gsd-wacom}]
gvfs-afc-volume---4*[{gvfs-afc-volume}]
gvfs-goa-volume---3*[{gvfs-goa-volume}]
gvfs-ghphoto2-vo---3*[{gvfs-ghphoto2-vo}]
gvfs-ntp-volume---3*[{gvfs-ntp-volume}]
gvfs-udisks2-vo---4*[{gvfs-udisks2-vo}]
gvfsd---gvfsd-recent---3*[{gvfsd-recent}]
      gvfsd-trash---4*[{gvfsd-trash}]
      3*[{gvfsd}]
gvfsd-fuse---6*[{gvfsd-fuse}]
gvfsd-metadata---3*[{gvfsd-metadata}]
ibus-daemon---ibus-dconf---4*[{ibus-dconf}]
      ibus-engine-sim---3*[{ibus-engine-sim}]
      ibus-extension---4*[{ibus-extension-}]
      3*[{ibus-daemon}]
ibus-portal---3*[{ibus-portal}]
2*[{pipewire}]---2*[{pipewire}]
pipewire-pulse---2*[{pipewire-pulse}]

```

```

wpa_supplicant
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ pstree -p
systemd(1)---ModemManager(1272)---(ModemManager)(1303)
      (ModemManager)(1309)
      (ModemManager)(1311)
NetworkManager(1241)---(NetworkManager)(1313)
      (NetworkManager)(1314)
      (NetworkManager)(1315)
accounts-daemon(1146)---{accounts-daemon}(1195)
      {accounts-daemon}(1199)
      {accounts-daemon}(1238)
avahi-daemon(1125)---avahi-daemon(1165)
bluetoothd(1126)
colord(1424)---{colord}(1433)
      {colord}(1434)
      {colord}(1436)
cron(1149)
cups-browsed(2103)---{cups-browsed}(2113)
      {cups-browsed}(2114)
      {cups-browsed}(2115)
cupsd(1408)
dbus-daemon(1127)
fwupd(3720)---{fwupd}(3721)
      {fwupd}(3722)
      {fwupd}(3723)
      {fwupd}(3724)
      {fwupd}(3726)
gdm3(1426)---gdm-session-wor(2075)---gdm-wayland-ses(2247)---gdm-session-b(2256)---{gdm-session-b}(2313)
      {gdm-session-b}(2314)
      {gdm-session-b}(2315)
      {gdm-wayland-ses}(2253)
      {gdm-wayland-ses}(2254)
      {gdm-wayland-ses}(2255)
      {gdm-session-wor}(2076)
      {gdm-session-wor}(2077)
      {gdm-session-wor}(2078)
      {gdm3}(1428)
      {gdm3}(1429)

```



```
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ ps -o pid
```

```
PID  
3417  
3980
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ ppid
```

```
Command 'ppid' not found, did you mean:  
command 'ppmd' from deb python3-ppmd (0.3.3-4build1)  
command 'ppdi' from deb cups-ppdc (2.4.7-1.2ubuntu7.9)  
command 'ppdi' from deb libppd-utils (2:2.0.0-0ubuntu4.1)  
command 'ppic' from deb pineapple-pictures (0.7.0-1)  
command 'pppd' from deb ppp (2.4.9-1+1.1ubuntu1)  
command 'ppit' from deb libconfig-pit-perl (0.04-3)
```

```
Try: sudo apt install <deb name>
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ ps -o ppid
```

```
PPID  
3410  
3417
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ ps -o cmd
```

```
CMD  
bash  
ps -o cmd
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ |
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop$ cd Niranjana  
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop/Niranjana$ nano f2.sh  
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop/Niranjana$ chmod +x f2.sh  
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop/Niranjana$ ./f2.sh
```

```
parent PID:4223  
PID PPID CMD  
3417 3410 bash  
4223 3417 /bin/bash ./f2.sh  
4224 4223 sleep 20  
4225 4223 ps -o pid,ppid,cmd
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~/Desktop/Niranjana$ |
```