



```
(base) rvu@rvu-OptiPlex-SFF-7020:~$ cd "desktop"
bash: cd: desktop: No such file or directory
(base) rvu@rvu-OptiPlex-SFF-7020:~$ mkdir desktop
(base) rvu@rvu-OptiPlex-SFF-7020:~$ cd "desktop"
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ls
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ mkdir mohith
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ls
mohith
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ pwd
/home/rvu/desktop
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ls -l
total 4
drwxrwxr-x 2 rvu rvu 4096 Feb 10 14:10 mohith
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ls -a
. .. mohith
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ gcc extenc.c -o hi
cc1: fatal error: extenc.c: No such file or directory
compilation terminated.
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ gcc extence.c -o hi
extence.c:2:9: fatal error: conio.h: No such file or directory
  2 | #include<conio.h>
   |          ^
compilation terminated.
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ gcc Mohith.c -o hello
Mohith.c:2:9: fatal error: conio.h: No such file or directory
  2 | #include<conio.h>
   |          ^
compilation terminated.
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano Mohith.c
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ gcc Mohith.c -o hello
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ./hello
hello(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano Mohith.c
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ sleep 30
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ sleep 1
```



```
. . . mohith
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ gcc extenc.c -o hi
cc1: fatal error: extenc.c: No such file or directory
compilation terminated.
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Mohith.c:2:9: fatal error: conio.h: No such file or directory
  2 | #include<conio.h>
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compilation terminated.
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano Mohith.c
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ gcc Mohith.c -o hello
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ./hello
hello(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano Mohith.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] 9925
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ sleep: missing operand
Try 'sleep --help' for more information.
^C
[1]+  Exit 1                  sleep
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ sleep 30 &
[1] 9942
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ sleep 40 &
[2] 9943
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ jobs
[1]-  Done                    sleep 30
[2]+  Done                    sleep 40
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ 
```



```
(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
extence.c hello mohith Mohith.c
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ Mohith.c
Mohith.c: command not found
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ extence.c
extence.c: command not found
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ hello
Command 'hello' not found, but can be installed with:
sudo snap install hello          # version 2.10, or
sudo apt install hello          # version 2.10-3
sudo apt install hello-traditional # version 2.10-6
See 'snap info hello' for additional versions.
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ cap Mohith.c
Command 'cap' not found, but can be installed with:
sudo apt install capistrano
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ cat Mohith.c
#include<stdio.h>
int main()
{
printf("hello");
return 0;
}
(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$ fg bg
bash: fg: bg: no such job
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ fg & bg
[1] 10127
bash: bg: job 1 already in background
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ bash: fg: no job control
^C
[1]+ Exit 1                  fg
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ 
```

```
]  
(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$ fg bg  
bash: fg: bg: no such job  
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ fg & bg  
[1] 10127  
bash: bg: job 1 already in background  
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ bash: fg: no job control  
^C  
[1]+ Exit 1 fg  
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ kill  
kill: usage: kill [-s sigspec | -n signum | -sigspec] pid | jobspec ... or kill -l [sigspec]  
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ps  
 PID TTY      TIME CMD  
 9544 pts/0    00:00:00 bash  
 10161 pts/0    00:00:00 ps  
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ps  
 PID TTY      TIME CMD  
 9544 pts/0    00:00:00 bash  
 10169 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}]  
          ├─cupsd  
          ├─dbus-daemon  
          ├─fwupd─5*[{fwupd}]  
          ├─gdm3─gdm-session-wor─gdm-wayland-ses─gdm-session-b─3*[{gdm-session-b}]  
          │           └─3*[{gdm-wayland-ses}]  
          └─3*[{gdm-session-wor}]
```

```
ibus-memconf—3*[{ibus-memconf}]\n    3*[{ibus-daemon}]\nibus-portal—3*[{ibus-portal}]\nnautilus—12*[{nautilus}]\n    2*[pipewire—2*[{pipewire}]]\n    pipewire-pulse—2*[{pipewire-pulse}]\nsnap—11*[{snap}]\nsnapd-desktop-i—snapd-desktop-i—4*[{snapd-desktop-i}]\ntracker-miner-f—7*[{tracker-miner-f}]\nwireplumber—5*[{wireplumber}]\nxdg-desktop-por—6*[{xdg-desktop-por}]\n    xdg-desktop-por—5*[{xdg-desktop-por}]\n    xdg-desktop-por—4*[{xdg-desktop-por}]\n    xdg-document-po—fusermount3\n        6*[{xdg-document-po}]\n    xdg-permission—3*[{xdg-permission-}]}\n\nsystemd-journal\nsystemd-logind\nsystemd-oomd\nsystemd-resolve\nsystemd-timesyn—{systemd-timesyn}\nsystemd-udevd\nthermald—4*[{thermald}]\nudisksd—5*[{udisksd}]\nunattended-upgr—{unattended-upgr}\nupowerd—3*[{upowerd}]\nwpa_supplicant
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ pstree -p\nsystemd(1)—ModemManager(1484)—{ModemManager}(1568)\n    {ModemManager}(1575)\n    {ModemManager}(1577)\nNetworkManager(1265)—{NetworkManager}(1558)\n    {NetworkManager}(1560)\n    {NetworkManager}(1561)\naccounts-daemon(1177)—{accounts-daemon}(1305)\n    {accounts-daemon}(1306)\n    {accounts-daemon}(1309)
```



```
systemd-resolve(1030)
└─systemd-timesyn(1031)─{systemd-timesyn}(1043)
  └─systemd-udevd(628)
    ├─thermald(1184)─{thermald}(1220)
    │  ├─{thermald}(1221)
    │  ├─{thermald}(1262)
    │  └─{thermald}(1674)
    └─udisksd(1185)─{udisksd}(1208)
      ├─{udisksd}(1209)
      ├─{udisksd}(1263)
      ├─{udisksd}(1530)
      └─{udisksd}(1611)
  └─unattended-upgr(1761)─{unattended-upgr}(1815)
  └─upowerd(1644)─{upowerd}(1669)
    ├─{upowerd}(1670)
    └─{upowerd}(1671)
└─wpa_supplicant(1267)
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ sudo
usage: sudo -h | -K | -k | -V
usage: sudo -v [-ABkNnS] [-g group] [-h host] [-p prompt] [-u user]
usage: sudo -l [-ABkNnS] [-g group] [-h host] [-p prompt] [-U user]
      [-u user] [command [arg ...]]
usage: sudo [-ABbEHkNnPS] [-r role] [-t type] [-C num] [-D directory]
      [-g group] [-h host] [-p prompt] [-R directory] [-T timeout]
      [-u user] [VAR=value] [-i | -s] [command [arg ...]]
usage: sudo -e [-ABkNnS] [-r role] [-t type] [-C num] [-D directory]
      [-g group] [-h host] [-p prompt] [-R directory] [-T timeout]
      [-u user] file ...
```

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

PID
9544
10365

```
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ps -o pid,ppid,cmd
```

PID	PPID	CMD
9544	9537	bash
10368	9544	ps -o pid,ppid,cmd

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

```
usage: sudo -v [-ABkNnS] [-g group] [-h host] [-p prompt] [-u user]
usage: sudo -l [-ABkNnS] [-g group] [-h host] [-p prompt] [-U user]
        [-u user] [command [arg ...]]
usage: sudo [-ABbEHkNnPS] [-r role] [-t type] [-C num] [-D directory]
        [-g group] [-h host] [-p prompt] [-R directory] [-T timeout]
        [-u user] [VAR=value] [-i | -s] [command [arg ...]]
usage: sudo -e [-ABkNnS] [-r role] [-t type] [-C num] [-D directory]
        [-g group] [-h host] [-p prompt] [-R directory] [-T timeout]
        [-u user] file ...
```

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

```
PID
```

```
9544
```

```
10365
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ps -o pid,ppid,cmd
```

```
PID      PPID CMD
```

```
9544      9537 bash
```

```
10368      9544 ps -o pid,ppid,cmd
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ bash
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ps
```

```
PID TTY      TIME CMD
```

```
9544 pts/0    00:00:00 bash
```

```
10575 pts/0    00:00:00 bash
```

```
10586 pts/0    00:00:00 ps
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano Mohith.sh
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ chmod +x Mohith.sh
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ./Mohith.sh
```

```
parent PID:10742
```

```
sleep: invalid time interval '$'
```

```
Try 'sleep --help' for more information.
```

```
PID      PPID CMD
```

```
9544      9537 bash
```

```
10575      9544 bash
```

```
10742      10575 /bin/bash ./Mohith.sh
```

```
10744      10742 ps -o pid,ppid,cmd
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano Mohith.sh
```

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

GNU nano 7.2

```
#!/bin/bash
echo "parent PID:$$"
sleep 20 $(
ps -o pid,ppid,cmd)
```