```
-rw-r--r--   1 ubuntu ubuntu 3771 Jan 12 07:10 .bashrc
drwx------  10 ubuntu ubuntu  220 Jan 12 07:22 .cache
drwxr-xr-x  11 ubuntu ubuntu  320 Jan 12 07:23 .config
drwx------   2 ubuntu ubuntu   80 Jan 12 08:13 .gnupg
drwx------   3 ubuntu ubuntu   60 Jan 12 07:10 .local
-rw-r--r--   1 ubuntu ubuntu  807 Jan 12 07:10 .profile
drwx------   2 ubuntu ubuntu   40 Jan 12 08:13 .ssh
-rw-r--r--   1 ubuntu ubuntu    0 Jan 12 07:10 .sudo_as_admin_successful
drwxr-xr-x   2 ubuntu ubuntu   60 Jan 12 07:10 Desktop
drwxr-xr-x   2 ubuntu ubuntu   40 Jan 12 07:22 Documents
drwxr-xr-x   2 ubuntu ubuntu   40 Jan 12 07:22 Downloads
drwxr-xr-x   2 ubuntu ubuntu   40 Jan 12 07:22 Music
drwxr-xr-x   2 ubuntu ubuntu   40 Jan 12 07:22 Pictures
drwxr-xr-x   2 ubuntu ubuntu   40 Jan 12 07:22 Public
drwxr-xr-x   2 ubuntu ubuntu   40 Jan 12 07:22 Templates
drwxr-xr-x   2 ubuntu ubuntu   40 Jan 12 07:22 Videos
drwx------   3 ubuntu ubuntu   60 Jan 12 07:11 snap
ubuntu@ubuntu:~$ pwd
/home/ubuntu
ubuntu@ubuntu:~$ cd ..
ubuntu@ubuntu:/home$ pwd
/home
ubuntu@ubuntu:/home$
ubuntu@ubuntu:/home$
ubuntu@ubuntu:/home$ touch file
touch: cannot touch 'file': Permission denied
ubuntu@ubuntu:/home$ cat > file2
bash: file2: Permission denied
ubuntu@ubuntu:/home$
```

ubuntu@ubuntu: /home

```
ubuntu@ubuntu:~$ ls
Desktop      Downloads   Pictures   Templates   snap
Documents    Music       Public     Videos
ubuntu@ubuntu:~$ cd
ubuntu@ubuntu:~$ ls
Desktop      Downloads   Pictures   Templates   snap
               Public     Videos
Thunderbird Mail  ; ls /student
ls: cannot access '/student': No such file or directory
ubuntu@ubuntu:~$ cd..
cd..: command not found
ubuntu@ubuntu:~$ ls -l
total 0
drwxr-xr-x 2 ubuntu ubuntu 60 Jan 12 07:10 Desktop
drwxr-xr-x 2 ubuntu ubuntu 40 Jan 12 07:22 Documents
drwxr-xr-x 2 ubuntu ubuntu 40 Jan 12 07:22 Downloads
drwxr-xr-x 2 ubuntu ubuntu 40 Jan 12 07:22 Music
drwxr-xr-x 2 ubuntu ubuntu 40 Jan 12 07:22 Pictures
drwxr-xr-x 2 ubuntu ubuntu 40 Jan 12 07:22 Public
drwxr-xr-x 2 ubuntu ubuntu 40 Jan 12 07:22 Templates
drwxr-xr-x 2 ubuntu ubuntu 40 Jan 12 07:22 Videos
drwx------ 3 ubuntu ubuntu 60 Jan 12 07:11 snap
ubuntu@ubuntu:~$ \ls-la
ls-la: command not found
ubuntu@ubuntu:~$ ls -la
total 16
drwxr-x--- 16 ubuntu ubuntu  420 Jan 12 08:13 .
drwxr-xr-x  1 root   root     60 Jan 12 07:10 ..
-rw-------  1 ubuntu ubuntu  539 Jan 12 08:13 .bash_history
```

```
drwx------ 3 ubuntu ubuntu 60 Jan 12 07:11 snap
ubuntu@ubuntu:~$ \ls-la
ls-la: command not found
ubuntu@ubuntu:~$ ls -la
total 16
drwxr-x--- 16 ubuntu ubuntu  420 Jan 12 08:13 .
drwxr-xr-x  1 root   root      60 Jan 12 07:10 ..
-rw-------  1 ubuntu ubuntu  539 Jan 12 08:13 .bash_history
-rw-r--r--  1 ubuntu ubuntu  220 Jan 12 07:10 .bash_logout
-rw-r--r--  1 ubuntu ubuntu 3771 Jan 12 07:10 .bashrc
drwx------ 10 ubuntu ubuntu  220 Jan 12 07:22 .cache
drwxr-xr-x 11 ubuntu ubuntu  320 Jan 12 07:23 .config
drwx------  2 ubuntu ubuntu   80 Jan 12 08:13 .gnupg
drwx------  3 ubuntu ubuntu   60 Jan 12 07:10 .local
-rw-r--r--  1 ubuntu ubuntu  807 Jan 12 07:10 .profile
drwx------  2 ubuntu ubuntu   40 Jan 12 08:13 .ssh
-rw-r--r--  1 ubuntu ubuntu    0 Jan 12 07:10 .sudo_as_admin_successful
drwxr-xr-x  2 ubuntu ubuntu   60 Jan 12 07:10 Desktop
drwxr-xr-x  2 ubuntu ubuntu   40 Jan 12 07:22 Documents
drwxr-xr-x  2 ubuntu ubuntu   40 Jan 12 07:22 Downloads
drw.----.--.2-ubuntu ubuntu   40 Jan 12 07:22 Music
       Ubuntu Software  buntu   40 Jan 12 07:22 Pictures
drwxr-xr-x  2 ubuntu ubuntu   40 Jan 12 07:22 Public
drwxr-xr-x  2 ubuntu ubuntu   40 Jan 12 07:22 Templates
drwxr-xr-x  2 ubuntu ubuntu   40 Jan 12 07:22 Videos
drwx------  3 ubuntu ubuntu   60 Jan 12 07:11 snap
ubuntu@ubuntu:~$ pwd
/home/ubuntu
ubuntu@ubuntu:~$ cd ..
```

ubuntu@ubuntu: /home

```
-rw-r--r--   1 ubuntu ubuntu 3771 Jan 12 07:10 .bashrc
drwx------  10 ubuntu ubuntu  220 Jan 12 07:22 .cache
drwxr-xr-x  11 ubuntu ubuntu  320 Jan 12 07:23 .config
drwx------   2 ubuntu ubuntu   80 Jan 12 08:13 .gnupg
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-rw-r--r--   1 ubuntu ubuntu    0 Jan 12 07:10 .sudo_as_admin_successful
drwxr-xr-x   2 ubuntu ubuntu   60 Jan 12 07:10 Desktop
drwxr-xr-x   2 ubuntu ubuntu   40 Jan 12 07:22 Documents
drwxr-xr-x   2 ubuntu ubuntu   40 Jan 12 07:22 Downloads
drwxr-xr-x   2 ubuntu ubuntu   40 Jan 12 07:22 Music
drwxr-xr-x   2 ubuntu ubuntu   40 Jan 12 07:22 Pictures
drwxr-xr-x   2 ubuntu ubuntu   40 Jan 12 07:22 Public
drwxr-xr-x   2 ubuntu ubuntu   40 Jan 12 07:22 Templates
drwxr-xr-x   2 ubuntu ubuntu   40 Jan 12 07:22 Videos
drwx------   3 ubuntu ubuntu   60 Jan 12 07:11 snap
ubuntu@ubuntu:~$ pwd
/home/ubuntu
ubuntu@ubuntu:~$ cd ..
ubuntu@ubuntu:/home$ pwd
/home
ubuntu@ubuntu:/home$
ubuntu@ubuntu:/home$
ubuntu@ubuntu:/home$ touch file
touch: cannot touch 'file': Permission denied
ubuntu@ubuntu:/home$ cat > file2
mission denied
ubuntu@ubuntu:/home$
```

Show Applications

```
ubuntu@ubuntu:~$ touch file
ubuntu@ubuntu:~$ cat > file2
hello linux user
^z
[1]+ stopped                    cat > file2
 Rhythmbox
```

```
ubuntu@ubuntu:~$ cp file2 new
ubuntu@ubuntu:~$ ls
Desktop    Downloads  Pictures  Templates  file   new
Documents  Music      Public    Videos     file2  snap
ubuntu@ubuntu:~$ cp file2 /folder
cp: cannot create regular file '/folder': Permission denied
ubuntu@ubuntu:~$ sudo cp file2 /folder
ubuntu@ubuntu:~$ [sudo] password for ubuntu
[sudo]: command not found
ubuntu@ubuntu:~$ cd folder
bash: cd: folder: No such file or directory
ubuntu@ubuntu:~$ ls
Desktop    Downloads  Pictures  Templates  file   new
Documents  Music      Public    Videos     file2  snap
ubuntu@ubuntu:~$ cd ..
ubuntu@ubuntu:/home$ ls
Help
ubuntu@ubuntu:/home$
```

```
ubuntu@ubuntu:-$ man man
ubuntu@ubuntu:-$ ps
     PID TTY          TIME CMD
   7808 pts/0     00:00:00 bash
   7841 pts/0     00:00:00 ps
ubuntu@ubuntu:-$ cat > info
roll no:- 1
my age :- 12
cd ..
my name-zzz
ubuntu@ubuntu:-$ pwd
/home/ubuntu
ubuntu@ubuntu:-$ ls
Desktop    Downloads  Pictures  Templates  file   info  snap
           Public     Videos    file2  new
Ubuntu Software  $ mkdir kiit
ubuntu@ubuntu:-$ cd student
bash: cd: student: No such file or directory
ubuntu@ubuntu:-$ cd ..
ubuntu@ubuntu:/home$ cd..
cd..: command not found
ubuntu@ubuntu:/home$ cd ..
ubuntu@ubuntu:/$ rm -r kiit
rm: cannot remove 'kiit': No such file or directory
ubuntu@ubuntu:/$ ls
bin   cdrom  etc     home   lib32  libx32  mnt   proc  root  sbin  srv  tmp  var
boot  dev    folder  lib    lib64  media   opt   rofs  run   snap  sys  usr
ubuntu@ubuntu:/$ pwd
/
```

ubuntu@ubuntu: /

```
ubuntu@ubuntu:/$ pwd
/
ubuntu@ubuntu:/$ cat > zip
bash: zip: Permission denied
ubuntu@ubuntu:/$ ls
bin    cdrom  etc      home   lib32  libx32  mnt    proc   root   sbin   srv   tmp  var
boot   dev    folder   lib    lib64  media   opt    rofs   run    snap   sys   usr
ubuntu@ubuntu:/$ mkdir student
mkdir: cannot create directory 'student': Permission denied
ubuntu@ubuntu:/$ cd student\
> cd ..
bash: cd: too many arguments
ubuntu@ubuntu:/$ cd student
bash: cd: student: No such file or directory
ubuntu@ubuntu:/$ history
    1  ls
    2  ls
    3  .ls
    4  ls
    5  .ls
    6  df
    7  pwd
    8  ls
    9  pwd
   10  cd
   11  mkdir
   12  mv
   13  cp
   14  rm
```

```
16   df
17   mount
18   wget
19   cp
20   mkdir /tmp/tutorial
21   cd /tmp/tutorial
22   mkdir dir1 dir2 dir3
23   mkdir
24   cd /etc ~/Desktop
25   clear
26   mkdir os
27   cd os
28   cd ..
29   mv combined.txt dir1
30   rm /dir/os
31   mkdir os
32   mkdir oo
33   mkdir ooo
34   rm /dir/ooo/dir/ooo
35   cd ooo
36   rm /dir/ooo/dir/ooo
37   rm /os/oo/ooo
38   rm /ooo
39   clear
40   mkdir /o
41   mkdirp
42   mkdir /p
43   mkdir /ee
44   mkdir /t
```

```
55  rm /dir/oo
56  rm /amrit
57  rm /dir/amrit/dir/amrit
58  rm amrit
59  rm oo
60  cat o
61  cat oo
62  cat rr
63  clear
64  ls
65  ls
66  ls
67  cd
68  ls
69  ls /student
70  cd..
71  ls -l
72  \ls-la
73  ls -la
74  pwd
75  cd ..
76  pwd
77  touch file
78  cat > file2
79  clear
80  cat file2
81  cat >> file2
82  touch file
83  cat > file2
```

```
ies        Terminal                Jan 12  08:44                    🌣 ◀ 🔋

  ⊞                         ubuntu@ubuntu: /         Q  ≡   ─  o  ✕

   87  sudo cp file2 /folder
   88  [sudo] password for ubuntu
   89  cd folder
   90  ls
   91  cd ..
   92  ls
   93  man man
   94  ps
   95  cat > info
   96  pwd
   97  ls
   98  mkdir kitt
   99  cd student
  100  cd ..
  101  cd..
  102  cd ..
  103  rm -r kilt
  104  ls
  105  pwd
  106  cat > zip
  107  clear
  108  pwd
  109  cat > zip
  110  ls
  111  mkdir student
  112  cd studentcd ..
  113  cd student
  114  history
ubuntu@ubuntu:/$ ▮
```