

LINUX COMMANDS

ls, sudo apt, pwd

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ ls
add.c Desktop Downloads main4.c Music Public struct.c Videos
a.out Documents main1.c main.c Pictures struct1.c Templates
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ sudo apt
[sudo] password for shriya:
Sorry, try again.
[sudo] password for shriya:
apt 2.0.9 (amd64)
Usage: apt [options] command
```

apt is a commandline package manager and provides commands for searching and managing as well as querying information about packages. It provides the same functionality as the specialized APT tools, like apt-get and apt-cache, but enables options more suitable for interactive use by default.

Most used commands:

```
list - list packages based on package names
search - search in package descriptions
show - show package details
install - install packages
reinstall - reinstall packages
remove - remove packages
autoremove - Remove automatically all unused packages
update - update list of available packages
upgrade - upgrade the system by installing/upgrading packages
full-upgrade - upgrade the system by removing/installing/upgrading packages
edit-sources - edit the source information file
satisfy - satisfy dependency strings
```

See apt(8) for more information about the available commands.

Configuration options and syntax is detailed in apt.conf(5).

Information about how to configure sources can be found in sources.list(5).

Package and version choices can be expressed via apt_preferences(5).

Security details are available in apt-secure(8).

This APT has Super Cow Powers.

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ ls
add.c Desktop Downloads main4.c Music Public struct.c Videos
a.out Documents main1.c main.c Pictures struct1.c Templates
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ cd Public
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~/Public$ pwd
/home/shriya/Public
```

cat

```
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~/Public$ vi sum.c
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~/Public$ vi hello.c
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~/Public$ ls
hello.c  sum.c
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~/Public$ cat sum.c hello.c
#include<stdio.h>
int main()
{
    int a,b,c;
    a=3;
    b=5;
    c=a+b;
    return c;
}
#include<stdio.h>
int main()
{
    printf("Hello World");
    return 0;
}
char name[20];
int roll;
float cgpa;
};

int main(){
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~$ tail -n 5*.c
tail: invalid number of lines: '5*.c'
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~$ tail -n 5*main.c
tail: invalid number of lines: '5*main.c'
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~$ tail -5 main.c
#include<stdio.h>
int main(){
```

cp, cd

```
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~/Public$ cp hello.c /home/shriya/Downloads
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~/Public$ ls
hello.c  sum.c
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~/Public$ cd
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~$ cd Downloads
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~/Downloads$ ls
'DTL - Forty Linux Commands (2).pptx'  hello.c
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~/Downloads$ cp -R /home/shriya/Public
cp: missing destination file operand after '/home/shriya/Public'
Try 'cp --help' for more information.
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~/Downloads$ cp -R /home/shriya/Public
cp: missing destination file operand after '/home/shriya/Public'
Try 'cp --help' for more information.
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~/Downloads$ cp -R /home/shriya/Downloads /home/shriya/Public
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~/Downloads$ cd
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~$ cd Public
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~/Public$ ls
Downloads  hello.c  sum.c
```

mkdir, rmdir

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~/Public$ mv hello.c /home/shriya/Downloads
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~/Public$ cd
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ cd Downloads
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~/Downloads$ ls
'DTL - Forty Linux Commands (2).pptx'  hello.c
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~/Downloads$ mv hello.c helloo.c
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~/Downloads$ ls
'DTL - Forty Linux Commands (2).pptx'  helloo.c
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~/Downloads$ mkdir -m777 dtl
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~/Downloads$ rmdir -p Downloads/dtl
rmdir: failed to remove 'Downloads/dtl': No such file or directory
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~/Downloads$ rmdir -p /home/shriya/Downloads/dtl
rmdir: failed to remove directory '/home/shriya/Downloads': Directory not empty
```

touch, grep, df

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ touch /home/shriya/Public/Web.html
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ cd Public
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~/Public$ ls
Downloads sum.c Web.html
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~/Public$ find Public -name sum.c
find: 'Public': No such file or directory
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~/Public$ grep return sum.c
    return c;
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~/Public$ grep -i "return" *.c
    return c;
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~/Public$ cd
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ grep -i "return" *.c
add.c:  return 0;
add.c:  return c;
main4.c:      return cptr;
main4.c:      return 0;
main.c: return 0;
struct1.c:   return 0;
struct.c:    return 0;
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ df -h sum.c
df: sum.c: No such file or directory
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ df -h main.c
Filesystem      Size  Used Avail Use% Mounted on
/dev/nvme0n1p9  56G  519M  52G   1% /home
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ df -m main.c
Filesystem      1M-blocks  Used Available Use% Mounted on
/dev/nvme0n1p9     56644    519     53216   1% /home
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ df -k main.c
Filesystem      1K-blocks  Used Available Use% Mounted on
/dev/nvme0n1p9  58003224 531412  54492996   1% /home
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ df -T main.c
Filesystem      Type 1K-blocks  Used Available Use% Mounted on
/dev/nvme0n1p9    ext4  58003224 531412  54492996   1% /home
```

du, head, tail

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ du -m struct.c
1    struct.c
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ du -m struct.c
1    struct.c
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ du -h struct.c
4.0K  struct.c
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ du -k struct.c
4    struct.c
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ du -s struct.c
4    struct.c
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ head -7 struct.c
#include<stdio.h>
#include<string.h>

struct student{
    char name[100];
    int roll;
    float cgpa;
}
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ head -c struct.c
head: invalid number of bytes: 'struct.c'
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ head -q struct.c
#include<stdio.h>
#include<string.h>

struct student{
    char name[100];
    int roll;
    float cgpa;
};

int main(){
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ tail -n 5*.c
tail: invalid number of lines: '5*.c'
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ tail -n 5*main.c
tail: invalid number of lines: '5*main.c'
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ tail -5 main.c
#include<stdio.h>
int main(){
```

diff

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ tail -5 main.c
#include<stdio.h>
int main(){
    int a = 1;
    return 0;
}
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ tail -5 struct.c
printf("Student name = %s\n", s1.name);
printf("Student roll no = %d\n", s1.roll);
printf("Student cgpa = %f\n", s1.cgpa);
return 0;
}
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ diff -c add.c main.c
*** add.c      2022-12-14 23:28:56.909925005 +0530
--- main.c      2022-12-13 21:56:26.134950695 +0530
*****
*** 1,13 ****
 #include<stdio.h>
- int add(int a, int b);
 int main(){
!     int a=5;
!     int b=3;
!     int c=add(a,b);
     return 0;
 }
- int add(int a, int b){
-     int c = a+b;
-     return c;
- }
--- 1,5 ----
 #include<stdio.h>
 int main(){
!     int a = 1;
     return 0;
 }
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ diff -u add.c main.c
--- add.c      2022-12-14 23:28:56.909925005 +0530
+++ main.c      2022-12-13 21:56:26.134950695 +0530
```

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ diff -u add.c main.c
- int main(){
!     int a = 1;
     return 0;
 }
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ diff -u add.c main.c
--- add.c      2022-12-14 23:28:56.909925005 +0530
+++ main.c      2022-12-13 21:56:26.134950695 +0530
@@ -1,13 +1,5 @@
 #include<stdio.h>
-int add(int a, int b);
 int main(){
-     int a=5;
-     int b=3;
-     int c=add(a,b);
+     int a = 1;
     return 0;
 }
-
-int add(int a, int b){
-     int c = a+b;
-     return c;
- }
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ diff -i add.c main.c
2d1
< int add(int a, int b);
4,6c3
<     int a=5;
<     int b=3;
<     int c=add(a,b);
...
>     int a = 1;
8,12d4
< }
<
< int add(int a, int b){
<     int c = a+b;
<     return c;
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$
```

tar

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ tar -cvf sum3.tar /home/shriya/Public
tar: Removing leading `/' from member names
/home/shriya/Public/
/home/shriya/Public/Downloads/
/home/shriya/Public/Downloads/.~lock.DTL - Forty Linux Commands (2).pptx#
/home/shriya/Public/Downloads/hello.c
/home/shriya/Public/Downloads/DTL - Forty Linux Commands (2).pptx
/home/shriya/Public/Web.html
/home/shriya/Public/sum.c
```

chmod

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ chmod -x main.c
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ chmod +x main.c
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ ls -la
total 456
drwxr-xr-x 17 shriya shriya 4096 Jan  4 00:21 .
drwxr-xr-x  4 root   root  4096 Dec  1 16:49 ..
-rw-rw-r--  1 shriya shriya  154 Dec 14 23:28 add.c
-rwxrwxr-x  1 shriya shriya 19128 Dec 14 23:29 a.out
-rw------- 1 shriya shriya 1691 Jan  4 00:25 .bash_history
-rw-r--r-- 1 shriya shriya 220 Dec  1 16:49 .bash_logout
-rw-r--r-- 1 shriya shriya 3771 Dec  1 16:49 .bashrc
drwxr-xr-x 17 shriya shriya 4096 Jan  3 22:59 .cache
drwx----- 16 shriya shriya 4096 Jan  3 23:57 .config
drwxr-xr-x  2 shriya shriya 4096 Dec  1 17:15 Desktop
drwxr-xr-x  2 shriya shriya 4096 Dec  1 17:15 Documents
drwxr-xr-x  2 shriya shriya 4096 Jan  4 10:21 Downloads
-rw-rw-r--  1 shriya shriya  68 Jan  3 22:54 Downlods
drwx----- 3 shriya shriya 4096 Dec  1 17:16 .gnupg
drwxr-xr-x  3 shriya shriya 4096 Dec  1 17:15 .local
-rw-rw-r--  1 shriya shriya     0 Dec 14 22:33 main1.c
-rw-rw-r--  1 shriya shriya 228 Dec 26 09:39 main4.c
-rwxrwxr-x  1 shriya shriya  55 Dec 13 21:56 main.c
drwx----- 4 shriya shriya 4096 Dec  1 17:19 .mozilla
drwxr-xr-x  2 shriya shriya 4096 Dec  1 17:15 Music
drwxr-xr-x  2 shriya shriya 4096 Jan  4 00:24 Pictures
-rw-r--r--  1 shriya shriya  807 Dec  1 16:49 .profile
drwxr-xr-x  3 shriya shriya 4096 Jan  3 23:25 Public
drwx----- 2 shriya shriya 4096 Dec  1 17:16 .ssh
-rw-rw-r--  1 shriya shriya 431 Dec  2 19:46 struct1.c
-rw-rw-r--  1 shriya shriya 332 Dec  2 19:05 struct.c
-rw-r--r--  1 shriya shriya     0 Dec  1 17:16 .sudo_as_admin_successful
-rw-rw-r--  1 shriya shriya 327680 Jan  4 00:21 sum3.tar
drwxr-xr-x  2 shriya shriya 4096 Dec  1 17:15 Templates
drwx----- 6 shriya shriya 4096 Dec  2 06:03 .thunderbird
drwxr-xr-x  2 shriya shriya 4096 Dec  1 17:15 Videos
-rw----- 1 shriya shriya 7227 Jan  3 22:49 .viminfo
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ chown shriyak main1.c
chown: invalid user: 'shriyak'
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ chown linuxuser main.c
```

chown, jobs, ps

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ chown shriyak main1.c
chown: invalid user: 'shriyak'
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ chown linuxuser main.c
chown: invalid user: 'linuxuser'
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ jobs -l jobID
bash: jobs: jobID: no such job
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ jobs -n jobID
bash: jobs: jobID: no such job
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ jobs -p jobID
bash: jobs: jobID: no such job
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ ps ux
USER      PID %CPU %MEM   VSZ RSS TTY STAT START   TIME COMMAND
shriya    1432  0.0  0.1 19832 10504 ?        Ss 10:20  0:00 /lib/systemd/
shriya    1437  0.0  0.0 170008 3600 ?        S  10:20  0:00 (sd-pam)
shriya    1459  0.0  0.2 2046948 17816 ?       S<sl 10:20  0:00 /usr/bin/puls
shriya    1461  0.0  0.3 593752 24308 ?       SNsl 10:20  0:00 /usr/libexec/
shriya    1465  0.0  0.0 8548  5596 ?        Ss 10:20  0:00 /usr/bin/dbus
shriya    1469  0.0  0.0 248804 7800 ?       SL 10:20  0:00 /usr/bin/gnom
shriya    1472  0.0  0.0 248328 7728 ?       Ssl 10:20  0:00 /usr/libexec/
shriya    1477  0.0  0.1 382068 8328 ?       SL 10:20  0:00 /usr/libexec/
shriya    1496  0.0  0.1 326088 11708 ?       Ssl 10:20  0:00 /usr/libexec/
shriya    1504  0.0  0.0 244512 5964 ?       Ssl 10:20  0:00 /usr/libexec/
shriya    1508  0.0  0.4 562136 34640 ?      SL 10:20  0:00 /usr/libexec/
shriya    1518  0.0  0.1 327300 11220 ?      SL 10:20  0:00 /usr/libexec/
shriya    1524  0.0  0.0 325360 7568 ?       Ssl 10:20  0:00 /usr/libexec/
shriya    1530  0.0  0.0 246748 7148 ?       Ssl 10:20  0:00 /usr/libexec/
shriya    1534  0.0  0.0 244336 5928 ?       Ssl 10:20  0:00 /usr/libexec/
shriya    1548  0.0  0.0 172652 6504 tty2     Ssl+ 10:20  0:00 /usr/lib/gdm3
shriya    1550  0.8  1.0 608044 83376 tty2     S+ 10:20  0:08 /usr/lib/xorg
shriya    1566  0.0  0.1 199408 15168 tty2     S+ 10:20  0:00 /usr/libexec/
shriya    1633  0.0  0.0 6040  456 ?        Ss 10:20  0:00 /usr/bin/ssh-
shriya    1654  0.0  0.1 309852 9164 ?       Ssl 10:20  0:00 /usr/libexec/
shriya    1659  0.0  0.0 7248  4220 ?        S  10:20  0:00 /usr/bin/dbus
shriya    1665  0.0  0.0 98696 4212 ?       Ssl 10:20  0:00 /usr/libexec/
shriya    1672  0.0  0.2 568820 17052 ?      Ssl 10:20  0:00 /usr/libexec/
shriya    1686  0.8  3.1 4286844 250816 ?     Ssl 10:20  0:09 /usr/bin/gnom
shriya    1713  0.0  0.1 323376 10176 ?      SL 10:20  0:00 ibus-daemon -
shriya    1717  0.0  0.1 175244 8988 ?       SL 10:20  0:00 /usr/libexec/
shriya    1718  0.0  0.1 386744 32806 ?       SL 10:20  0:01 /usr/libexec/
```

shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx: ~									
...
shriya	1672	0.0	0.2	568820	17052	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1686	0.8	3.1	4286844	250816	?	Ssl	10:20	0:09 /usr/bin/gnom
shriya	1713	0.0	0.1	323376	10176	?	Sl	10:20	0:00 ibus-daemon -
shriya	1717	0.0	0.1	175244	8988	?	Sl	10:20	0:00 /usr/libexec/
shriya	1718	0.0	0.4	286744	32896	?	Sl	10:20	0:01 /usr/libexec/
shriya	1720	0.0	0.3	209032	29760	?	Sl	10:20	0:00 /usr/libexec/
shriya	1722	0.0	0.1	249044	9312	?	Sl	10:20	0:00 /usr/libexec/
shriya	1734	0.0	0.0	162836	7664	?	Sl	10:20	0:00 /usr/libexec/
shriya	1738	0.0	0.0	244232	4728	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1740	0.0	0.2	581632	19916	?	Sl	10:20	0:00 /usr/libexec/
shriya	1749	0.0	0.3	399068	25900	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1758	0.0	0.3	847444	30180	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1762	0.0	0.0	156236	5688	?	Sl	10:20	0:00 /usr/libexec/
shriya	1771	0.0	0.3	755808	29512	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1788	0.0	0.3	2939140	27121	?	Sl	10:20	0:00 /usr/bin/gjs
shriya	1800	0.0	0.1	326184	10492	?	Sl	10:20	0:00 /usr/libexec/
shriya	1813	0.0	0.1	322556	9120	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1814	0.0	0.4	441952	31768	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1815	0.0	0.2	383000	17300	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1818	0.0	0.1	322792	9396	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1819	0.0	0.3	356984	30048	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1820	0.0	0.4	772900	32608	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1821	0.0	0.3	357340	30656	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1822	0.0	0.1	256732	11172	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1823	0.0	0.0	465736	5996	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1827	0.0	0.0	244144	5904	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1829	0.0	0.1	477732	12760	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1831	0.0	0.1	326716	10528	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1834	0.0	0.1	330420	11072	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1837	0.0	0.1	396516	9164	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1840	0.0	0.3	356540	29704	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1844	0.0	0.1	326988	10564	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1845	0.0	0.3	357584	31080	?	Ssl	10:20	0:00 /usr/libexec/
shriya	1850	0.0	0.7	654792	59288	?	Sl	10:20	0:00 /usr/libexec/
shriya	1857	0.0	0.0	231804	5652	?	Sl	10:20	0:00 /usr/libexec/
shriya	1899	0.0	0.1	350816	14804	?	Sl	10:20	0:00 /usr/libexec/
shriya	1928	0.0	0.1	175236	9112	?	Sl	10:20	0:00 /usr/libexec/
shriya	2022	0.0	0.1	471464	10564	?	Ssl	10:20	0:00 /usr/libexec/
shriya	2026	0.0	0.3	174323	5101	?	Sl	10:20	0:00 /usr/libexec/

kill, ping

```
shrisha@shrisha-HP-Pavilion-Laptop-14-dv1xxx:~$ kill SIGKILL 1518
bash: kill: SIGKILL: arguments must be process or job IDs
shrisha@shrisha-HP-Pavilion-Laptop-14-dv1xxx:~$ kill SIGTERM 1518
bash: kill: SIGTERM: arguments must be process or job IDs
bash: kill: (1518) - No such process
shrisha@shrisha-HP-Pavilion-Laptop-14-dv1xxx:~$ ping google.com
PING google.com (142.250.192.142) 56(84) bytes of data.
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=1 ttl=114 time=9.01 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=2 ttl=114 time=8.79 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=3 ttl=114 time=9.25 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=4 ttl=114 time=10.7 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=5 ttl=114 time=10.7 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=6 ttl=114 time=9.09 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=7 ttl=114 time=12.2 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=8 ttl=114 time=9.05 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=9 ttl=114 time=18.0 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=10 ttl=114 time=134 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=11 ttl=114 time=14.1 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=12 ttl=114 time=15.8 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=13 ttl=114 time=90.7 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=14 ttl=114 time=118 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=15 ttl=114 time=42.3 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=16 ttl=114 time=9.45 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=17 ttl=114 time=11.7 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=18 ttl=114 time=10.5 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=19 ttl=114 time=12.4 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=20 ttl=114 time=16.2 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=21 ttl=114 time=14.3 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=22 ttl=114 time=297 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=23 ttl=114 time=12.4 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=24 ttl=114 time=13.1 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=25 ttl=114 time=16.5 ms
64 bytes from bom12s18-in-f14.1e100.net (142.250.192.142): icmp_seq=26 ttl=114 time=19.1 ms
^C
--- google.com ping statistics ---
26 packets transmitted, 26 received, 0% packet loss, time 25038ms
rtt min/avg/max/mdev = 8.788/36.295/296.968/61.751 ms
shrisha@shrisha-HP-Pavilion-Laptop-14-dv1xxx:~$
```

wget, uname, gedit, top

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ wget https://www.loggly.com/wp-content/uploads/2015/05/Linux-Cheat-Sheet-Sponsored-By-Loggly.pdf
--2023-01-04 10:46:40- https://www.loggly.com/wp-content/uploads/2015/05/Linux-Cheat-Sheet-Sponsored-By-Loggly.pdf
Resolving www.loggly.com (www.loggly.com)... 117.239.141.120, 117.239.141.97
Connecting to www.loggly.com (www.loggly.com)|117.239.141.120|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 987562 (964K) [application/pdf]
Saving to: 'Linux-Cheat-Sheet-Sponsored-By-Loggly.pdf'

Linux-Cheat-Sheet-Sponsored-By-Loggly 100%[=====] 964.42K 692KB/s in 1.4s

2023-01-04 10:46:43 (692 KB/s) - 'Linux-Cheat-Sheet-Sponsored-By-Loggly.pdf' saved [987562/987562]

shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ uname -a
Linux shriya-HP-Pavilion-Laptop-14-dv1xxx 5.15.0-56-generic #62~20.04.1-Ubuntu SMP Tue Nov 22 21:24:20 UTC 2022 x86_64 x86_64 x86_64 GNU/Linux
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ uname -s
Linux
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ uname -n
shriya-HP-Pavilion-Laptop-14-dv1xxx
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ gedit
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ top

top - 10:51:19 up 31 min, 1 user, load average: 0.63, 0.29, 0.14
Tasks: 233 total, 1 running, 232 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.7 us, 0.5 sy, 0.0 ni, 98.9 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 7701.0 total, 5536.0 free, 902.3 used, 1262.7 buff/cache
MiB Swap: 7816.0 total, 7816.0 free, 0.0 used. 6203.5 avail Mem

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
231 root -51 0 0 0 0 S 2.7 0.0 0:11.35 irq/146-ELAN072
1550 shriya 20 0 634636 88848 53500 S 2.7 1.1 0:19.77 Xorg
1686 shriya 20 0 4311864 258768 105148 S 2.0 3.3 0:19.42 gnome-shell
2244 shriya 20 0 823348 51408 38772 S 1.7 0.7 0:05.25 gnome-terminal-
  8 root 20 0 0 0 0 I 0.3 0.0 0:00.60 kworker/u16:0-phy0
142 root 20 0 0 0 0 I 0.3 0.0 0:00.77 kworker/0:2-events_freezable
436 root -51 0 0 0 0 S 0.3 0.0 0:07.35 irq/156-rtw88_p
2453 root 20 0 0 0 0 I 0.3 0.0 0:00.04 kworker/5:2-events
2557 shriya 20 0 20632 3912 3128 R 0.3 0.0 0:00.08 top
  1 root 20 0 168324 11384 8132 S 0.0 0.1 0:00.91 systemd
  2 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kthreadd
```

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx: ~
1686 shriya 20 0 4311864 258768 105148 S 2.0 3.3 0:19.42 gnome-shell
2244 shriya 20 0 823348 51408 38772 S 1.7 0.7 0:05.25 gnome-terminal-
8 root 20 0 0 0 0 I 0.3 0.0 0:00.60 kworker/u16:0-phy0
142 root 20 0 0 0 0 I 0.3 0.0 0:00.77 kworker/0:2-events_freezable
436 root -51 0 0 0 0 S 0.3 0.0 0:07.35 irq/156-rtw88_p
2453 root 20 0 0 0 0 I 0.3 0.0 0:00.04 kworker/5:2-events
2557 shriya 20 0 20632 3912 3128 R 0.3 0.0 0:00.08 top
1 root 20 0 168324 11384 8132 S 0.0 0.1 0:00.91 systemd
2 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_gp
4 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_par_gp
5 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 netns
7 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/0:0H-events_highpri
9 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 mm_percpu_wq
10 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu_tasks_rude_
11 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu_tasks_trace
12 root 20 0 0 0 0 S 0.0 0.0 0:00.08 ksoftirqd/0
13 root 20 0 0 0 0 I 0.0 0.0 0:00.39 rcu_sched
14 root rt 0 0 0 0 S 0.0 0.0 0:00.01 migration/0
15 root -51 0 0 0 0 S 0.0 0.0 0:00.00 idle_inject/0
17 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/0
18 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/1
19 root -51 0 0 0 0 S 0.0 0.0 0:00.00 idle_inject/1
20 root rt 0 0 0 0 S 0.0 0.0 0:00.16 migration/1
21 root 20 0 0 0 0 S 0.0 0.0 0:00.01 ksoftirqd/1
23 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/1:0H-events_highpri
24 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/2
25 root -51 0 0 0 0 S 0.0 0.0 0:00.00 idle_inject/2
26 root rt 0 0 0 0 S 0.0 0.0 0:00.16 migration/2
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx: ~ top, nd
Command 'top,' not found, did you mean:
  command 'top' from deb procps (2:3.3.16-1ubuntu2.3)
Try: sudo apt install <deb name>
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx: ~
```

history

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ history
1 sudo apt install vim
2 sudo apt install gcc
3 sudo apt update && sudo apt upgrade
4 sudo apt-get install libc6-dbg gdb valgrind
5 vi struct.c
6 gcc struct.c
7 vi struct.c
8 gcc struct.c
9 ./a.out
10 ./a.out
11 vi struct1.c
12 gcc struct1.c
13 vi struct1.c
14 gcc struct1.c
15 vi struct1.c
16 gcc struct1.c
17 vi struct1.c
18 gcc struct1.c
19 ./a.out
20 vi struct1.c
21 gcc struct1.c
22 ./a.out
23 vi main.c
24 gcc -g main.c
25 gdb a.out
26 vi add.c
27 gcc -g main.c
28 gdb a.out
29 vi add.c
30 gcc -g add.c
31 gdb a.out
32 vi main1.c
33 vi add.c
34 gcc -g add.c
35 gdb a.out
36 vi add.c
37 gcc -g add.c
```

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ history
38 gdb a.out
39 vi main4.c
40 ./a.out
41 gdb a.out
42 ls
43 sudo apt
44 ls
45 cd Public
46 pwd
47 cat struct.c struct1.c
48 cat main.c main1.c
49 cat add.c main.c
50 cd
51 cd Downloads
52 cat main1.c main4.c
53 cp main.c main1.c /home/shriya/Public
54 ls
55 cd
56 cd Public
57 ls
58 vi sum.c
59 vi hello.c
60 ls
61 cat sum.c hello.c
62 cp hello.c /home/shriya/Downloads
63 cd
64 cd Downloads
65 ls
66 cp hello.c /home/shriya/Downloads
67 cd
68 cd Public
69 cp hello.c /home/shriya/Downloads
70 ls
71 cd
72 cd Downloads
73 ls
74 cp -R /home/shriya/Public
75 cp -R /home/shriya/Downloads /home/shriya/Public
76 cd
```

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xx: ~
76 cd
77 cd Public
78 ls
79 mv hello.c /home/shriya/Downloads
80 cd
81 cd Downloads
82 ls
83 mv hello.c helloo.c
84 ls
85 mkdir -m777 dtl
86 rmdir -p Downloads/dtl
87 rmdir -p /home/shriya/Downloads/dtl
88 cd
89 mkdir -m777 DTL
90 rmdir -p /home/shriya/DTL
91 rmdir -p DTL
92 touch /home/shriya/Public/Web.html
93 cd Public
94 ls
95 find Public -name sum.c
96 grep return sum.c
97 grep -i "return" *.c
98 cd
99 grep -i "return" *.c
100 df -h sum.c
101 df -h main.c
102 df -m main.c
103 df -k main.c
104 df -T main.c
105 du -m struct.c
106 du -h struct.c
107 du -k struct.c
108 du -s struct.c
109 head -7 struct.c
110 head -c struct.c
111 head -q struct.c
112 tail -n 5*.c
113 tail -n 5*main.c
114 tail -5 main.c
```

man, echo zip, unzip

```

114 tail -5 main.c
115 tail -5 struct.c
116 diff -c add.c main.c
117 diff -u add.c main.c
118 diff -i add.c main.c
119 tar -cvf sum3.tar /home/shriya/Public
120 chmod -x main.c
121 chmod +x main.c
122 ls -la
123 chown shriyak main1.c
124 chown linuxuser main.c
125 jobs -l jobID
126 jobs -n jobID
127 jobs -p jobID
128 ps ux
129 kill SIGKILL 1518
130 kill SIGTERM 1518
131 ping google.com
132 wget https://www.loggly.com/wp-content/uploads/2015/05/Linux-Cheat-Sheet-Sponsored-By-Loggly.pdf
133 uname -a
134 uname -s
135 uname -n
136 gedit
137 top
138 top, nd
139 history
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ man ls
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ echo -n hello
hello
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ echo -e hello
hello
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ echo -E hello world
hello world
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ zip archive.zip main.c
adding: main.c (deflated 2%)
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ unzip archive.zip main.zip
Archive: archive.zip
caution: filename not matched: main.zip
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ unzip archive.zip
Archive: archive.zip

```

hostname, useradd, passwd

```

shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ unzip archive.zip
Archive: archive.zip
replace main.c? [y]es, [n]o, [A]ll, [N]one, [r]ename: n
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ hostname
shriya-HP-Pavilion-Laptop-14-dv1xxx
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ hostname -a
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ hostname -a
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ hostname -A
shriya-HP-Pavilion-Laptop-14-dv1xxx
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ hostname -i
127.0.1.1
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ hostname -I
10.100.107.179
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ useradd Shriya
useradd: Permission denied.
useradd: cannot lock /etc/passwd; try again later.
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ passwd 1234
passwd: user '1234' does not exist
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ useradd Shriya passwd 1234
Usage: useradd [options] LOGIN
      useradd -D
      useradd -D [options]

Options:
  --badnames          do not check for bad names
  -b, --base-dir BASE_DIR    base directory for the home directory of the
                             new account
  --btrfs-subvolume-home   use BTRFS subvolume for home directory
  -c, --comment COMMENT    GECOS field of the new account
  -d, --home-dir HOME_DIR   home directory of the new account
  -D, --defaults          print or change default useradd configuration
  -e, --expiredate EXPIRE_DATE  expiration date of the new account
  -f, --inactive INACTIVE   password inactivity period of the new account
  -g, --gid GROUP          name or ID of the primary group of the new
                           account
  -G, --groups GROUPS      list of supplementary groups of the new
                           account
```

userdel

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx: ~
new account
use BTRFS subvolume for home directory
GECOS field of the new account
home directory of the new account
print or change default useradd configuration
expiration date of the new account
password inactivity period of the new account
name or ID of the primary group of the new
account
list of supplementary groups of the new
account
display this help message and exit
use this alternative skeleton directory
override /etc/login.defs defaults
do not add the user to the lastlog and
faillog databases
create the user's home directory
do not create the user's home directory
do not create a group with the same name as
the user
allow to create users with duplicate
(non-unique) UID
encrypted password of the new account
create a system account
directory to chroot into
prefix directory where are located the /etc/* files
login shell of the new account
user ID of the new account
create a group with the same name as the user
use a specific SEUSER for the SELinux user mapping
Use the extra users database

shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx: ~$ userdel Shriya
userdel: user 'Shriya' does not exist
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx: ~$ userdel Shriya passwd 1234
Usage: userdel [options] LOGIN

Options:
-f, --force           force removal of files.

shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx: ~
```

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx: ~
account
display this help message and exit
use this alternative skeleton directory
override /etc/login.defs defaults
do not add the user to the lastlog and
faillog databases
create the user's home directory
do not create the user's home directory
do not create a group with the same name as
the user
allow to create users with duplicate
(non-unique) UID
encrypted password of the new account
create a system account
directory to chroot into
prefix directory where are located the /etc/* files
login shell of the new account
user ID of the new account
create a group with the same name as the user
use a specific SEUSER for the SELinux user mapping
Use the extra users database

shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx: ~$ userdel Shriya
userdel: user 'Shriya' does not exist
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx: ~$ userdel Shriya passwd 1234
Usage: userdel [options] LOGIN

Options:
-f, --force           force removal of files,
                     even if not owned by user
-h, --help            display this help message and exit
-r, --remove          remove home directory and mail spool
-R, --root CHROOT_DIR
                     directory to chroot into
-P, --prefix PREFIX_DIR
                     prefix directory where are located the /etc/* files
--extrausers          Use the extra users database
-Z, --selinux-user   remove any SELinux user mapping for the user

shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx: ~
```

alias, unalias, htop, ps

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ alias k=kill  
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ unalias k  
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ htop -d  
Command 'htop' not found, but can be installed with:  
sudo snap install htop # version 3.2.1, or  
sudo apt install htop # version 2.2.0-2build1  
See 'snap info htop' for additional versions.  
  
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ ps -T  
 PID   SPID  TTY      TIME CMD  
2252    2252  pts/0    00:00:00 bash  
3425    3425  pts/0    00:00:00 ps  
  
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ ps -u  
USER      PID %CPU %MEM   VSZ   RSS TTY      STAT START  TIME COMMAND  
shriya     1548  0.0  0.0 172652  6504  tty2    Ssl+ 10:20  0:00 /usr/lib/gdm3/gdm-x-session --run-script env GNOME_SHELL_SESSION_MODE=ubuntu /usr/bin  
shriya     1550  1.1  1.1 635624 89112  tty2    Sl+ 10:20  0:48 /usr/lib/xorg/Xorg vt2 -displayfd 3 -auth /run/user/1000/gdm/Xauthority -background n  
shriya     1566  0.0  0.1 199408 15168  tty2    Sl+ 10:20  0:00 /usr/libexec/gnome-session-binary --systemd --systemd --session=ubuntu  
shriya     2252  0.0  0.0 19248  4844  pts/0    Ss 10:22  0:00 bash  
shriya     3428  0.0  0.0 20128  3228  pts/0    R+ 11:30  0:00 ps -u  
  
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ ps -A  
 PID TTY      TIME CMD  
 1 ?    00:00:00 systemd  
 2 ?    00:00:00 kthreadd  
 3 ?    00:00:00 rcu_gp  
 4 ?    00:00:00 rcu_par_gp  
 5 ?    00:00:00 netns  
 7 ?    00:00:00 kworker/0:0H-events_highpri  
 9 ?    00:00:00 mm_percpu_wq  
10 ?   00:00:00 rCU_tasks_rude_  
11 ?   00:00:00 rCU_tasks_trace  
12 ?   00:00:00 ks oftirqd/0  
13 ?   00:00:00 rCU_sched  
14 ?   00:00:00 migration/0  
15 ?   00:00:00 idle_inject/0  
17 ?   00:00:00 cpuhp/0  
18 ?   00:00:00 cpuhp/1
```

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$  
17 ?   00:00:00 cpuhp/0  
18 ?   00:00:00 cpuhp/1  
19 ?   00:00:00 idle_inject/1  
20 ?   00:00:00 migration/1  
21 ?   00:00:00 ks oftirqd/1  
23 ?   00:00:00 kworker/1:0H-events_highpri  
24 ?   00:00:00 cpuhp/2  
25 ?   00:00:00 idle_inject/2  
26 ?   00:00:00 migration/2  
27 ?   00:00:00 ks oftirqd/2  
29 ?   00:00:00 kworker/2:0H-events_highpri  
30 ?   00:00:00 cpuhp/3  
31 ?   00:00:00 idle_inject/3  
32 ?   00:00:00 migration/3  
33 ?   00:00:00 ks oftirqd/3  
35 ?   00:00:00 kworker/3:0H-events_highpri  
36 ?   00:00:00 cpuhp/4  
37 ?   00:00:00 idle_inject/4  
38 ?   00:00:00 migration/4  
39 ?   00:00:00 ks oftirqd/4  
41 ?   00:00:00 kworker/4:0H-events_highpri  
42 ?   00:00:00 cpuhp/5  
43 ?   00:00:00 idle_inject/5  
44 ?   00:00:00 migration/5  
45 ?   00:00:00 ks oftirqd/5  
47 ?   00:00:00 kworker/5:0H-events_highpri  
48 ?   00:00:00 cpuhp/6  
49 ?   00:00:00 idle_inject/6  
50 ?   00:00:00 migration/6  
51 ?   00:00:00 ks oftirqd/6  
53 ?   00:00:00 kworker/6:0H-events_highpri  
54 ?   00:00:00 cpuhp/7  
55 ?   00:00:00 idle_inject/7  
56 ?   00:00:00 migration/7  
57 ?   00:00:00 ks oftirqd/7  
59 ?   00:00:00 kworker/7:0H-events_highpri  
60 ?   00:00:00 kdevtmpfs  
61 ?   00:00:00 inet_frag_wq  
62 ?   00:00:00 kauditd
```

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxi: ~
62 ? 00:00:00 kaudited
63 ? 00:00:00 khungtaskd
64 ? 00:00:00 oom_reaper
65 ? 00:00:00 writeback
66 ? 00:00:00 kcompactd0
67 ? 00:00:00 ksnd
68 ? 00:00:00 khugepaged
117 ? 00:00:00 kintegrityd
118 ? 00:00:00 kblockd
119 ? 00:00:00 blkcg_punt_bio
120 ? 00:00:00 tpm_dev_wq
121 ? 00:00:00 ata_sff
122 ? 00:00:00 md
123 ? 00:00:00 edac-poller
124 ? 00:00:00 devfreq_wq
125 ? 00:00:00 watchdogd
127 ? 00:00:00 kworker/1:1H-events_highpri
128 ? 00:00:00 kworker/0:1H-events_highpri
130 ? 00:00:00 kswapd0
131 ? 00:00:00 encryptfs-kthrea
133 ? 00:00:00 kthrotld
134 ? 00:00:00 kworker/4:1-mm_percpu_wq
138 ? 00:00:00 acpi_thermal_pm
140 ? 00:00:01 kworker/u16:3-events_unbound
141 ? 00:00:00 vfio-irqfd-clea
143 ? 00:00:00 kworker/3:1H-events_highpri
144 ? 00:00:00 mld
145 ? 00:00:00 ipv6_addrconf
154 ? 00:00:00 kstrp
157 ? 00:00:00 zswap-shrink
166 ? 00:00:00 charger_manager
213 ? 00:00:00 kworker/2:1H-events_highpri
224 ? 00:00:00 kworker/7:1H-events_highpri
226 ? 00:00:00 kworker/4:1H-events_highpri
227 ? 00:00:00 nvme-wq
228 ? 00:00:00 nvme-reset-wq
229 ? 00:00:00 nvme-delete-wq
230 ? 00:00:00 kworker/6:1H-kblockd
231 ? 00:00:23 irq/146-ELAN072
```

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxi: ~
231 ? 00:00:23 irq/146-ELAN072
233 ? 00:00:00 kworker/5:1H-events_highpri
234 ? 00:00:00 spi0
262 ? 00:00:00 jbd2/nvme0n1p6-
263 ? 00:00:00 ext4-rsv-conver
305 ? 00:00:00 systemd-journal
336 ? 00:00:00 systemd-udevd
395 ? 00:00:00 irq/155-me1_me
396 ? 00:00:00 cfg80211
413 ? 00:00:00 cryptd
436 ? 00:00:17 irq/156-rtw88_p
476 ? 00:00:00 card0-crtc0
479 ? 00:00:00 card0-crtc1
489 ? 00:00:00 card0-crtc2
490 ? 00:00:00 card0-crtc3
577 ? 00:00:00 irq/158-AudioDS
738 ? 00:00:00 jbd2/nvme0n1p9-
739 ? 00:00:00 ext4-rsv-conver
761 ? 00:00:00 systemd-resolve
762 ? 00:00:00 systemd-timesyn
790 ? 00:00:00 accounts-daemon
791 ? 00:00:00 acpid
793 ? 00:00:00 avahi-daemon
794 ? 00:00:00 bluetoothd
795 ? 00:00:00 cron
798 ? 00:00:00 cupsd
801 ? 00:00:01 dbus-daemon
802 ? 00:00:03 NetworkManager
807 ? 00:00:00 irqbalance
809 ? 00:00:00 networkd-dispat
814 ? 00:00:01 polkitd
817 ? 00:00:00 rsyslogd
825 ? 00:00:01 snapd
828 ? 00:00:00 switcheroo-cont
833 ? 00:00:00 systemd-logind
839 ? 00:00:02 thermald
843 ? 00:00:00 udisksd
844 ? 00:00:01 wpa_supplicant
870 ? 00:00:00 zuhbi_daemon
```

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xx: ~
844 ? 00:00:01 wpa_supplicant
870 ? 00:00:00 avahi-daemon
893 ? 00:00:00 ModemManager
896 ? 00:00:00 cups-browsed
927 ? 00:00:00 gdm3
958 ? 00:00:00 unattended-upgr
993 ? 00:00:00 rtkit-daemon
1104 ? 00:00:00 upowerd
1358 ? 00:00:00 colord
1395 ? 00:00:00 gdm-session-wor
1431 ? 00:00:00 whoopsie
1432 ? 00:00:00 systemd
1436 ? 00:00:00 kerneloops
1437 ? 00:00:00 (sd-pam)
1447 ? 00:00:00 kerneloops
1459 ? 00:00:00 pulseaudio
1461 ? 00:00:00 tracker-miner-f
1465 ? 00:00:00 dbus-daemon
1469 ? 00:00:00 gnome-keyring-d
1472 ? 00:00:00 gvfsd
1477 ? 00:00:00 gvfsd-fuse
1496 ? 00:00:00 gvfs-udisks2-vo
1504 ? 00:00:00 gvfs-goa-volume
1508 ? 00:00:00 goa-daemon
1514 ? 00:00:00 krfccmd
1524 ? 00:00:00 gvfs-afc-volume
1530 ? 00:00:00 gvfs-gphoto2-vo
1534 ? 00:00:00 gvfs-mtp-volume
1548 ttty2 00:00:00 gdm-x-session
1550 ttty2 00:00:48 Xorg
1566 ttty2 00:00:00 gnome-session-b
1633 ? 00:00:00 ssh-agent
1654 ? 00:00:00 at-spi-bus-laun
1659 ? 00:00:00 dbus-daemon
1665 ? 00:00:00 gnome-session-c
1672 ? 00:00:00 gnome-session-b
1686 ? 00:00:46 gnome-shell
1713 ? 00:00:00 ibus-daemon
1717 ? 00:00:00 ibus-menconf
```

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xx: ~
1713 ? 00:00:00 ibus-daemon
1717 ? 00:00:00 ibus-menconf
1718 ? 00:00:01 ibus-extension-
1720 ? 00:00:00 ibus-x11
1722 ? 00:00:00 ibus-portal
1734 ? 00:00:00 at-spi2-registr
1738 ? 00:00:00 xdg-permission-
1740 ? 00:00:00 gnome-shell-cal
1749 ? 00:00:00 evolution-sourc
1758 ? 00:00:00 evolution-calen
1762 ? 00:00:00 dconf-service
1771 ? 00:00:00 evolution-addre
1788 ? 00:00:00 gjs
1800 ? 00:00:00 gvfsd-trash
1813 ? 00:00:00 gsd-a11y-settin
1814 ? 00:00:00 gsd-color
1815 ? 00:00:00 gsd-datetime
1818 ? 00:00:00 gsd-housekeepin
1819 ? 00:00:00 gsd-keyboard
1820 ? 00:00:00 gsd-media-keys
1821 ? 00:00:00 gsd-power
1822 ? 00:00:00 gsd-print-notif
1823 ? 00:00:00 gsd-rfkill
1827 ? 00:00:00 gsd-screensaver
1829 ? 00:00:00 gsd-sharing
1831 ? 00:00:00 gsd-smartcard
1834 ? 00:00:00 gsd-sound
1837 ? 00:00:00 gsd-usb-protect
1840 ? 00:00:00 gsd-wacom
1844 ? 00:00:00 gsd-wwan
1845 ? 00:00:00 gsd-xsettings
1850 ? 00:00:00 evolution-alarm
1857 ? 00:00:00 gsd-disk-utilit
1899 ? 00:00:00 gsd-printer
1928 ? 00:00:00 ibus-engine-sim
2022 ? 00:00:00 xdg-desktop-por
2026 ? 00:00:00 xdg-document-po
2035 ? 00:00:00 xdg-desktop-por
2075 ? 00:00:07 nautilus
```

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx: ~
2035 ? 00:00:00 xdg-desktop-por
2075 ? 00:00:07 nautilus
2098 ? 00:00:00 oosplash
2114 ? 00:00:39 soffice.bin
2190 ? 00:00:00 gvfsd-metadata
2193 ? 00:00:00 update-notifier
2244 ? 00:00:13 gnome-terminal-
2252 pts/0 00:00:00 bash
2400 ? 00:00:00 kworker/7:0-events
2453 ? 00:00:00 kworker/5:2-events
2488 ? 00:00:01 kworker/u17:1-l915_flip
2544 ? 00:00:00 kworker/2:0-events
2634 ? 00:00:00 kworker/3:0-events
2641 ? 00:00:00 kworker/6:0-mm_percpu_wq
2695 ? 00:00:00 kworker/1:2-events
2702 ? 00:00:00 kworker/u16:1-events_power_efficient
2743 ? 00:00:00 kworker/u16:2-events_unbound
2774 ? 00:00:00 kworker/1:0-events
2778 ? 00:00:00 kworker/5:0-events
2812 ? 00:00:00 kworker/0:1-events
2813 ? 00:00:00 kworker/2:1-events
2827 ? 00:00:00 kworker/3:2-events
2847 ? 00:00:00 kworker/7:2
2897 ? 00:00:00 kworker/0:0-events
2899 ? 00:00:20 firefox
2972 ? 00:00:00 Socket Process
3012 ? 00:00:02 Privileged Cont
3066 ? 00:00:00 WebExtensions
3092 ? 00:00:00 kworker/u17:3-rtw_tx_wq
3133 ? 00:00:13 Isolated Web Co
3141 ? 00:00:06 Isolated Web Co
3199 ? 00:00:00 kworker/6:2-mm_percpu_wq
3217 ? 00:00:00 Web Content
3250 ? 00:00:00 RDD Process
3252 ? 00:00:00 Utility Process
3265 ? 00:00:00 Web Content
3303 ? 00:00:00 kworker/4:0-events
3318 ? 00:00:00 Web Content
3326 ? 00:00:00 Isolated Web Co
```

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ nano main4.c
2190 ? 00:00:00 gvfsd-metadata
2193 ? 00:00:00 update-notifier
2244 ? 00:00:13 gnome-terminal-
2252 pts/0 00:00:00 bash
2400 ? 00:00:00 kworker/7:0-events
2453 ? 00:00:00 kworker/5:2-events
2488 ? 00:00:01 kworker/u17:1-l915_flip
2544 ? 00:00:00 kworker/2:0-events
2634 ? 00:00:00 kworker/3:0-events
2641 ? 00:00:00 kworker/6:0-mm_percpu_wq
2695 ? 00:00:00 kworker/1:2-events
2702 ? 00:00:00 kworker/u16:1-events_power_efficient
2743 ? 00:00:00 kworker/u16:2-events_unbound
2774 ? 00:00:00 kworker/1:0-events
2778 ? 00:00:00 kworker/5:0-events
2812 ? 00:00:00 kworker/0:1-events
2813 ? 00:00:00 kworker/2:1-events
2827 ? 00:00:00 kworker/3:2-events
2847 ? 00:00:00 kworker/7:2
2897 ? 00:00:00 kworker/0:0-events
2899 ? 00:00:20 firefox
2972 ? 00:00:00 Socket Process
3012 ? 00:00:02 Privileged Cont
3066 ? 00:00:00 WebExtensions
3092 ? 00:00:00 kworker/u17:3-rtw_tx_wq
3133 ? 00:00:13 Isolated Web Co
3141 ? 00:00:06 Isolated Web Co
3199 ? 00:00:00 kworker/6:2-mm_percpu_wq
3217 ? 00:00:00 Web Content
3250 ? 00:00:00 RDD Process
3252 ? 00:00:00 Utility Process
3265 ? 00:00:00 Web Content
3303 ? 00:00:00 kworker/4:0-events
3318 ? 00:00:00 Web Content
3395 ? 00:00:00 kworker/6:1
3430 ? 00:00:00 kworker/u17:0
3431 pts/0 00:00:00 ps
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ nano main4.c
```

nano

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx: ~
GNU nano 4.8
main4.c

#include<stdio.h>
void * add(void *a, void *b){
    int c= *((int *)a) + *((int *)b);
    void *cptr = &c;
    return cptr;
}
int main(){
    int a=5;
    int b=6;
    void *aptr = &a;
    void *bptr = &b;
    void *cptr = add(aptr, bptr);
    return 0;
}

[ Read 14 lines ]
^G Get Help      ^O Write Out     ^W Where Is      ^K Cut Text      ^J Justify      ^C Cur Pos      M-U Undo      M-A Mark Text      M-[ To Bracket
^X Exit         ^R Read File     ^\ Replace       ^U Paste Text     ^T To Spell      ^_ Go To Line    M-E Redo      M-G Copy Text      M-Q Where Was
```

vi

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ vi main4.c
```

```
#include<stdio.h>
void * add(void *a, void *b){
    int c= *((int *)a) + *((int *)b);
    void *cptr = &c;
    return cptr;
}
int main(){
    int a=5;
    int b=6;
    void *aptr = &a;
    void *bptr = &b;
    void *cptr = add(aptr, bptr);
    return 0;
}
```

find

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ find Public -name Web.html
Public/Web.html
```

sudo apt install

```
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~$ locate
Command 'locate' not found, but can be installed with:
sudo apt install mlocate

shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~$ sudo apt install mlocate
[sudo] password for shriya:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  chromium-codecs-ffmpeg-extra gstreamer1.0-vaapi libgstreamer-plugins-bad1.0-0 libva-wayland2
Use 'sudo apt autoremove' to remove them.
Suggested packages:
  nocache
The following NEW packages will be installed:
  mlocate
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 50.1 kB of archives.
After this operation, 258 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu focal/main amd64 mlocate amd64 0.26-3ubuntu3 [50.1 kB]
Fetched 50.1 kB in 1s (38.9 kB/s)
Selecting previously unselected package mlocate.
(Reading database ... 186266 files and directories currently installed.)
Preparing to unpack .../mlocate_0.26-3ubuntu3_amd64.deb ...
Unpacking mlocate (0.26-3ubuntu3) ...
Setting up mlocate (0.26-3ubuntu3) ...
update-alternatives: using /usr/bin/mlocate to provide /usr/bin/locate (locate) in auto mode
Adding group 'mlocate' (GID 135) ...
Done.
Initializing mlocate database; this may take some time... done
Processing triggers for man-db (2.9.1-1) ...
shriya@shriya-HP-Pavilion-Laptop-14-dvixxx:~$ locate ".html" -n 20
/home/shriya/Public/Web.html
/snap/core20/1738/usr/share/doc/python3/python-policy.html
/snap/core20/1738/usr/share/doc/python3.8/python-policy.html
/snap/core20/1778/usr/share/doc/python3/python-policy.html
/snap/core20/1778/usr/share/doc/python3.8/python_policy.html
```

locate

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ locate ".html" -n 20
/home/shriya/Public/Web.html
/snap/core20/1738/usr/share/doc/python3/python-policy.html
/snap/core20/1738/usr/share/doc/python3.8/python-policy.html
/snap/core20/1778/usr/share/doc/python3/python-policy.html
/snap/core20/1778/usr/share/doc/python3.8/python-policy.html
/snap/gnome-3-38-2004/115/usr/share/devhelp/books/vala-0.48/Attributes.html
/snap/gnome-3-38-2004/115/usr/share/devhelp/books/vala-0.48/Classes.html
/snap/gnome-3-38-2004/115/usr/share/devhelp/books/vala-0.48/Concepts.html
/snap/gnome-3-38-2004/115/usr/share/devhelp/books/vala-0.48/Delegates.html
/snap/gnome-3-38-2004/115/usr/share/devhelp/books/vala-0.48/Enumerated_types__Enums_.html
/snap/gnome-3-38-2004/115/usr/share/devhelp/books/vala-0.48/Errors.html
/snap/gnome-3-38-2004/115/usr/share/devhelp/books/vala-0.48/Expressions.html
/snap/gnome-3-38-2004/115/usr/share/devhelp/books/vala-0.48/GIDL_metadata_format.html
/snap/gnome-3-38-2004/115/usr/share/devhelp/books/vala-0.48/GIR_metadata_format.html
/snap/gnome-3-38-2004/115/usr/share/devhelp/books/vala-0.48/Generics.html
/snap/gnome-3-38-2004/115/usr/share/devhelp/books/vala-0.48/Interfaces.html
/snap/gnome-3-38-2004/115/usr/share/devhelp/books/vala-0.48/Methods.html
/snap/gnome-3-38-2004/115/usr/share/devhelp/books/vala-0.48/Namespace.html
/snap/gnome-3-38-2004/115/usr/share/devhelp/books/vala-0.48/Overview.html
/snap/gnome-3-38-2004/115/usr/share/devhelp/books/vala-0.48/Preprocessor.html
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ locate mysql
/etc/mysql
/etc/apparmor.d/abstractions/mysql
/etc/mysql/conf.d
/etc/mysql/my.cnf
/etc/mysql/my.cnf.fallback
/etc/mysql/conf.d/mysql.cnf
/etc/mysql/conf.d/mysqldump.cnf
/snap/core20/1738/etc/apparmor.d/abstractions/mysql
/snap/core20/1738/usr/share/bash-completion/completions/mysql
/snap/core20/1738/usr/share/bash-completion/completions/mysqladmin
/snap/core20/1778/etc/apparmor.d/abstractions/mysql
/snap/core20/1778/usr/share/bash-completion/completions/mysql
/snap/core20/1778/usr/share/bash-completion/completions/mysqladmin
/usr/lib/x86_64-linux-gnu/libmysqlclient.so.21
/usr/lib/x86_64-linux-gnu/libmysqlclient.so.21.2.31
/usr/share/mysql-common
/usr/share/bash-completion/completions/mysql
```

```
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ locate mysql
/snap/core20/1738/usr/share/bash-completion/completions/mysqladmin
/snap/core20/1778/usr/share/bash-completion/completions/mysql
/snap/core20/1778/usr/share/bash-completion/completions/mysql
/snap/core20/1778/usr/share/bash-completion/completions/mysqladmin
/usr/lib/x86_64-linux-gnu/libmysqlclient.so.21
/usr/lib/x86_64-linux-gnu/libmysqlclient.so.21.2.31
/usr/share/mysql-common
/usr/share/bash-completion/completions/mysql
/usr/share/bash-completion/completions/mysqladmin
/usr/share/doc/libmysqlclient21
/usr/share/doc/mysql-common
/usr/share/doc/libmysqlclient21/NEWS.Debian.gz
/usr/share/doc/libmysqlclient21/changelog.Debian.gz
/usr/share/doc/libmysqlclient21/copyright
/usr/share/doc/mysql-common/changelog.gz
/usr/share/doc/mysql-common/copyright
/usr/share/doc/mysql-common/frozen-mode
/usr/share/doc/mysql-common/frozen-mode/README
/usr/share/doc/mysql-common/frozen-mode/downgrade
/usr/share/libreoffice/help/en-US/text/shared/explorer/database/dabawiz02mysql.html
/usr/share/lintian/overrides/mysql-common
/usr/share/mysql-common/configure-symlinks
/usr/share/vim/vim81/syntax/mysql.vim
/var/lib/dpkg/info/libmysqlclient21:amd64.list
/var/lib/dpkg/info/libmysqlclient21:amd64.md5sums
/var/lib/dpkg/info/libmysqlclient21:amd64.shlibs
/var/lib/dpkg/info/libmysqlclient21:amd64.symbols
/var/lib/dpkg/info/libmysqlclient21:amd64.triggers
/var/lib/dpkg/info/mysql-common.conffiles
/var/lib/dpkg/info/mysql-common.list
/var/lib/dpkg/info/mysql-common.md5sums
/var/lib/dpkg/info/mysql-common.postinst
/var/lib/dpkg/info/mysql-common.postrm
/var/lib/dpkg/info/mysql-common.preinst
/var/lib/dpkg/info/mysql-common.prem
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$ locate -c mysql
44
shriya@shriya-HP-Pavilion-Laptop-14-dv1xxx:~$
```

