

```
saumya@saumya-VirtualBox:~/Desktop$ ls
saumya@saumya-VirtualBox:~/Desktop$ mkdir new.txt
saumya@saumya-VirtualBox:~/Desktop$ cat new.txt
cat: new.txt: Is a directory
saumya@saumya-VirtualBox:~/Desktop$ pwd
/home/saumya/Desktop
saumya@saumya-VirtualBox:~/Desktop$ rmdir new.txt
saumya@saumya-VirtualBox:~/Desktop$ mkdir saumya
saumya@saumya-VirtualBox:~/Desktop$ cd saumya
saumya@saumya-VirtualBox:~/Desktop/saumya$ cd ..
saumya@saumya-VirtualBox:~/Desktop$ touch demo.txt
saumya@saumya-VirtualBox:~/Desktop$ cat > demo.txt
saumya@saumya-VirtualBox:~/Desktop$ rm demo.txt
saumya@saumya-VirtualBox:~/Desktop$ mkdir sam
saumya@saumya-VirtualBox:~/Desktop$ mv saumya sam
saumya@saumya-VirtualBox:~/Desktop$ gedit saumya.ttx
```



saumya@saumya-VirtualBox: ~/Desktop



sam

saumya@saumya-VirtualBox:~/Desktop\$ gedit sam.txt

head sam.txt

saumya@saumya-VirtualBox:~/Desktop\$

saumya@saumya-VirtualBox:~/Desktop\$

saumya@saumya-VirtualBox:~/Desktop\$ head sam.txt

#include <stdio.h>

int main() {

printf("Hello Worrlld");

return 0;

}

saumya@saumya-VirtualBox:~/Desktop\$ tail sam.txt

#include <stdio.h>

int main() {

printf("Hello Worrlld");

return 0;

}

saumya@saumya-VirtualBox:~/Desktop\$ tac sam.txt

}

return 0;

printf("Hello Worrlld");

int main() {

#include <stdio.h>

saumya@saumya-VirtualBox:~/Desktop\$ id

uid=1000(saumya) gid=1000(saumya) groups=1000(saumya),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),122(lpadmin),134(lxd),135(sambashare)

saumya@saumya-VirtualBox:~/Desktop\$



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```
saumya@saumya-VirtualBox:~/Desktop$ sort sam.txt
```

```
}  
#include <stdio.h>  
int main() {  
    printf("Hello Worlrd");  
    return 0;  
}
```

```
saumya@saumya-VirtualBox:~/Desktop$ gzip sam.txt
```

```
saumya@saumya-VirtualBox:~/Desktop$ gunzip sam.ttx
```

```
gzip: sam.ttx.gz: No such file or directory
```

```
saumya@saumya-VirtualBox:~/Desktop$ locate sam.txt
```

```
Command 'locate' not found, but can be installed with:
```

```
sudo apt install plocate
```

```
saumya@saumya-VirtualBox:~/Desktop$ date
```

```
Thursday 12 January 2023 11:48:24 PM IST
```

```
saumya@saumya-VirtualBox:~/Desktop$ cal
```

```
Command 'cal' not found, but can be installed with:
```

```
sudo apt install ncal
```

```
saumya@saumya-VirtualBox:~/Desktop$ sleep 1
```

```
saumya@saumya-VirtualBox:~/Desktop$ time
```

```
real    0m0.000s
```

```
user    0m0.000s
```

```
sys     0m0.000s
```

```
saumya@saumya-VirtualBox:~/Desktop$ df
```

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
tmpfs	202276	1568	200708	1%	/run
/dev/sda3	25106692	11226952	12579056	48%	/
tmpfs	1011368	3048	1008320	1%	/dev/shm
tmpfs	5120	4	5116	1%	/run/lock



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saumya@saumya-VirtualBox:~/Desktop\$ mount

sysfs on /sys type sysfs (rw,nosuid,nodev,noexec,relatime)

proc on /proc type proc (rw,nosuid,nodev,noexec,relatime)

udev on /dev type devtmpfs (rw,nosuid,relatime,size=976028k,nr_inodes=244007,mode=755,inode64)

devpts on /dev/pts type devpts (rw,nosuid,noexec,relatime,gid=5,mode=620,ptmxmode=000)

tmpfs on /run type tmpfs (rw,nosuid,nodev,noexec,relatime,size=202276k,mode=755,inode64)

/dev/sda3 on / type ext4 (rw,relatime,errors=remount-ro)

securityfs on /sys/kernel/security type securityfs (rw,nosuid,nodev,noexec,relatime)

tmpfs on /dev/shm type tmpfs (rw,nosuid,nodev,inode64)

tmpfs on /run/lock type tmpfs (rw,nosuid,nodev,noexec,relatime,size=5120k,inode64)

cgroup2 on /sys/fs/cgroup type cgroup2 (rw,nosuid,nodev,noexec,relatime,nsdelegate,memory_recursiveprot)

pstore on /sys/fs/pstore type pstore (rw,nosuid,nodev,noexec,relatime)

bpf on /sys/fs/bpf type bpf (rw,nosuid,nodev,noexec,relatime,mode=700)

systemd-1 on /proc/sys/fs/binfmt_misc type autofs (rw,relatime,fd=29,pgrp=1,timeout=0,minproto=5,maxproto=5,direct,pipe_ino=1308)

mqueue on /dev/mqueue type mqueue (rw,nosuid,nodev,noexec,relatime)

hugetlbfs on /dev/hugepages type hugetlbfs (rw,relatime,pagesize=2M)

debugfs on /sys/kernel/debug type debugfs (rw,nosuid,nodev,noexec,relatime)

tracefs on /sys/kernel/tracing type tracefs (rw,nosuid,nodev,noexec,relatime)

configfs on /sys/kernel/config type configfs (rw,nosuid,nodev,noexec,relatime)

fusectl on /sys/fs/fuse/connections type fusectl (rw,nosuid,nodev,noexec,relatime)

none on /run/credentials/systemd-sysusers.service type ramfs (ro,nosuid,nodev,n



```
none on /run/credentials/systemd-sysusers.service type ramfs (ro,nosuid,nodev,noexec,relatime,mode=700)
/var/lib/snapd/snaps/bare_5.snap on /snap/bare/5 type squashfs (ro,nodev,relatime,errors=continue,x-gdu.hide)
/var/lib/snapd/snaps/firefox_1635.snap on /snap/firefox/1635 type squashfs (ro,nodev,relatime,errors=continue,x-gdu.hide)
/var/lib/snapd/snaps/core20_1587.snap on /snap/core20/1587 type squashfs (ro,nodev,relatime,errors=continue,x-gdu.hide)
/var/lib/snapd/snaps/gnome-3-38-2004_112.snap on /snap/gnome-3-38-2004/112 type squashfs (ro,nodev,relatime,errors=continue,x-gdu.hide)
/var/lib/snapd/snaps/gtk-common-themes_1535.snap on /snap/gtk-common-themes/1535 type squashfs (ro,nodev,relatime,errors=continue,x-gdu.hide)
/var/lib/snapd/snaps/snapd_16292.snap on /snap/snapd/16292 type squashfs (ro,nodev,relatime,errors=continue,x-gdu.hide)
/var/lib/snapd/snaps/snap-store_582.snap on /snap/snap-store/582 type squashfs (ro,nodev,relatime,errors=continue,x-gdu.hide)
/var/lib/snapd/snaps/snapd-desktop-integration_14.snap on /snap/snapd-desktop-integration/14 type squashfs (ro,nodev,relatime,errors=continue,x-gdu.hide)
/dev/sda2 on /boot/efi type vfat (rw,relatime,fmask=0077,dmask=0077,codepage=437,iocharset=iso8859-1,shortname=mixed,errors=remount-ro)
tmpfs on /run/snapd/ns type tmpfs (rw,nosuid,nodev,noexec,relatime,size=202276k,mode=755,inode64)
nsfs on /run/snapd/ns/firefox.mnt type nsfs (rw)
nsfs on /run/snapd/ns/snap-store.mnt type nsfs (rw)
nsfs on /run/snapd/ns/snapd-desktop-integration.mnt type nsfs (rw)
tmpfs on /run/user/1000 type tmpfs (rw,nosuid,nodev,relatime,size=202272k,nr_inodes=50568,mode=700,uid=1000,gid=1000,inode64)
gvfsd-fuse on /run/user/1000/gvfs type fuse.gvfsd-fuse (rw,nosuid,nodev,relatime,user_id=1000,group_id=1000)
```



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```
=1000,group_id=1000)
```

```
saumya@saumya-VirtualBox:~/Desktop$ ip
```

```
Usage: ip [ OPTIONS ] OBJECT { COMMAND | help }
```

```
       ip [ -force ] -batch filename
```

```
where  OBJECT := { address | addrlabel | fou | help | ila | ioam | l2tp | link
```

```
|
```

```
       macsec | maddress | monitor | mptcp | mroute | mrule |
```

```
       neighbor | neighbour | netconf | netns | nexthop | ntable |
```

```
       ntbl | route | rule | sr | tap | tcpmetrics |
```

```
       token | tunnel | tuntap | vrf | xfrm }
```

```
OPTIONS := { -V[ersion] | -s[tatistics] | -d[etails] | -r[esolve] |
```

```
             -h[uman-readable] | -iec | -j[son] | -p[retty] |
```

```
             -f[amily] { inet | inet6 | mpls | bridge | link } |
```

```
             -4 | -6 | -M | -B | -0 |
```

```
             -l[oops] { maximum-addr-flush-attempts } | -br[ief] |
```

```
             -o[neline] | -t[imestamp] | -ts[hort] | -b[atch] [filename]
```

```
|
```

```
             -rc[vbuf] [size] | -n[etns] name | -N[umeric] | -a[ll] |
```

```
             -c[olor]}
```

```
saumya@saumya-VirtualBox:~/Desktop$ ping
```

```
ping: usage error: Destination address required
```

```
saumya@saumya-VirtualBox:~/Desktop$ piing kiit.ac.in
```

```
piing: command not found
```

```
saumya@saumya-VirtualBox:~/Desktop$ ping kiit.ac.in
```

```
PING kiit.ac.in (172.67.147.28) 56(84) bytes of data.
```

```
64 bytes from 172.67.147.28 (172.67.147.28): icmp_seq=1 ttl=56 time=239 ms
```

```
64 bytes from 172.67.147.28 (172.67.147.28): icmp_seq=2 ttl=56 time=248 ms
```

```
64 bytes from 172.67.147.28 (172.67.147.28): icmp_seq=3 ttl=56 time=211 ms
```

```
64 bytes from 172.67.147.28 (172.67.147.28): icmp_seq=4 ttl=56 time=219 ms
```




saumya@saumya-VirtualBox: ~/Desktop



```
saumya@saumya-VirtualBox:~/Desktop$ who
saumya    tty2          2023-01-12 23:28 (tty2)
saumya@saumya-VirtualBox:~/Desktop$ apt
apt 2.4.6 (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).