```
/home/aryan/Desktop
arvan@arvan-VirtualBox:-/Desktop5 mkdir new1
aryan@aryan-VirtualBox: /Desktop$ mkdir new2
arvanBarvan-VirtualBox: ~/Desktop$ rndir new1
aryan@aryan-VirtualBox:-/DesktopS cd
aryan@aryan-VirtualBox:-5 ls
aryan@aryan-VirtualBox:-5 cd Desktop
arvan@arvan-VirtualBox:-/DesktopS touch demo.txt
aryan@aryan-VirtualBox:-/Desktop$ touch demo1.txt demo2.txt
arvan@arvan-VirtualBox:-/Desktop5 is
demo1.txt demo2.txt demo.txt
aryan@aryan-VirtualBox:-/DesktopS cat demo.txt
arvan@arvan-VirtualBox:-/DesktopS rm demo.txt
aryan@aryan-VirtualBox:-/DesktopS cp demo1.txt demo2.txt
aryan@aryan-Virtual@ox:-/DesktopS mv demo2.txt new2
arvan@arvan-VirtualBox:-/DesktooS head demo2.txt
head: cannot open 'demo2.txt' for reading: No such file or directory
arvan@arvan-VirtualBox:-/DesktopS head demo1.txt
aryan@aryan-Virtual@ox:-/DesktopS tail demo1.txt
aryan@aryan-VirtualBox:-/DesktopS tac demoi.txt
arvan@arvan-VirtualBox:-/DesktopS more demoi.txt
aryan@aryan-VirtualBox:-/Desktop$ less demoi.txt
[3]+ Stopped
                             less demoi.txt
aryangaryan-VirtualBox:-/Desktop$ su aryan
Password:
arvan@arvan-VirtualBox:-/Desktop5 id
uid=1000(aryan) gid=1000(aryan) groups=1000(aryan),4(adm),24(cdrom),27(sudo),30(dlp),46(plugdev),122(lpadmin),134(lxd),135(sambashare)
aryan@aryan-VirtualBox:-/Desktop$ golu useradd aryan
Command 'golu' not found, did you mean:
command 'gosu' from deb gosu (1.14-1)
 command 'gol' from deb growl-for-linux (0.8.5-8build1)
 command 'gold' from deb binutils (2.38-4ubuntu2.1)
Try: sudo apt install <deb name>
aryan@aryan-VirtualBox:-/DesktopS sudo useradd aryan
[sudo] password for aryan:
useradd: user 'aryan' already exists
aryan@aryan-VirtualBox:-/Desktop$ sudo passwd aryan
New password:
BAD PASSWORD: The password contains the user name in some form
Retype new password:
passwd: password updated successfully
aryan@aryan-VirtualBox:-/DesktopS
```

aryan@aryan-Virtual@ox:-/Desktop5 pwd

```
aryan tty2 2023-01-12 13:21 (tty2)
aryan@aryan-VirtualBox:-$ whoami
aryan
aryan@aryan-VirtualBox:~$ date
Thursday 12 January 2023 01:39:38 PM IST
aryan@aryan-VirtualBox:-S time
real
      0m0.000s
user 0m0.000s
sys 0m0.000s
aryan@aryan-VirtualBox:-S echo
aryan@aryan-VirtualBox:~$ uname
Linux
aryan@aryan-VirtualBox:-S tar
tar: You must specify one of the '-Acdtrux', '--delete' or '--test-label' option
Try 'tar --help' or 'tar --usage' for more information.
aryan@aryan-VirtualBox:-S
```

aryan@aryan-VirtualBox:~\$ who

```
aryan@aryan-VirtualBox:~$ cal
Command 'cal' not found, but can be installed with:
sudo apt install ncal
aryan@aryan-VirtualBox:-$ printf "Hello sir"
Hello siraryan@aryan-VirtualBox:-$ printf "The octahedral and hexadecimal value of number 255 are %o and %x respectively" 255 255
The octahedral and hexadecimal value of number 255 are 377 and ff respectivelyaryan@aryan-VirtualBox:-$ echo "34+35" | bc
aryan@aryan-VirtualBox:-$ echo "var=68;++var" | bc
aryan@aryan-VirtualBox:~$ echo "10^2" | bc
100
aryan@aryan-VirtualBox:-S echo "69>420" | bc
aryan@aryan-VirtualBox:-$ echo "34||35" | bc
aryan@aryan-VirtualBox:-$ echo "34&&0" | bc
aryan@aryan-VirtualBox: $ echo "obase - 2; 69 " | bc
aryan@aryan-VirtualBox:~$ echo "obase-8;9" | bc
aryan@aryan-VirtualBox: $ echo "obase-16;12" |bc -l
-6
12
aryan@aryan-VirtualBox:~$ echo "ibase - 2; 1111" | bc
1111
```

```
aryan@aryan-VirtualBox:-$ logout
bash: logout: not login shell: use `exit'
aryan@aryan-VirtualBox:-$ groupadd Developer
groupadd: Permission denied.
groupadd: cannot lock /etc/group; try again later.
aryan@aryan-VirtualBox:~$ cat > demo2.txt
88
aryan@aryan-VirtualBox:~$ cat > demo2.txt
Arvan-77
Meet-99
aryan@aryan-VirtualBox:-$ cut -d- -f2 demo2.txt
arvan@arvan-VirtualBox:-S grep 6
cat demo2.txt | grep 6
cat demo2.txt | grep
```

```
/dev/pts/8
arvan@arvan-VirtualBox:-S echo SHOME
/home/arvan
aryan@aryan-VirtualBox:-$ cat demo2.txt | tac | cat | cat | tac
Arvan-77
Meet-99
arvan@arvan-VirtualBox:-S comm demo1.txt demo2.txt
       Aryan-77
       Meet-99
aryan@aryan-VirtualBox:-$ echo class7 | sed 's/class/aryan/'
arvan7
aryan@aryan-VirtualBox:-$ cat demo2.txt | tee new3.txt | cat
Aryan-77
Meet-99
aryan@aryan-VirtualBox:-$ cat demo2.txt | tr 'prcu' 'PRCU'
ARyan-77
teet-99
ryan@aryan-VirtualBox: $ sort demo2.txt | uniq
Arvan-77
teet-99
rvan@arvan-VirtualBox:-5 wc demo2.txt
2 2 17 demo2.txt
ryan@aryan-VirtualBox:-S od -b demo2.txt
0000000 101 162 171 141 156 055 067 067 012 115 145 145 164 055 071 071
000020 012
0000021
ryan@aryan-VirtualBox:-$ sort demo2.txt
rvan-77
eet 99
ryan@aryan-VirtualBox: $ gzip demo2.txt demo1.txt
ryan@aryan-VirtualBox:-5 ls
emo1
                              or Desktop Documents Downloads file1 Music new3.txt Pictures Public snap Templates Videos
ryan@aryan-VirtualBox:-S find . -name ".pdf"
rvan@arvan-VirtualBox:-S locate demo2.txt
ommand 'locate' not found, but can be installed with:
udo apt install plocate
ryan@aryan-VirtualBox:-$ cal
ommand 'cal' not found, but can be installed with:
udo apt install neal
ryan@aryan-VirtualBox: - S sudo cal
sudo] password for aryan:
udo: cal: command not found
ryangaryan-VirtualBox:-S time
eal
     0m0.000s
ser
     8m8.888s
     8m8.888s
15
yan@aryan-VirtualBox: 5 df
                          Used Available Use% Mounted on
lesystem
            1K-blocks
pfs
                          1540
                                 400284 1% /run
               401824
lev/sda3
              50770432 11933736 36225292 25% /
pfs
               2009184
                             0 2009104 0% /dev/shm
pfs
                 5120
                             4
                                    5116 1% /run/lock
lev/sda2
               524252
                          5364
                                  518888 2% /boot/eft
```

aryangaryan-VirtualBox:-S tty

infs

481828

2416 399484 1% /run/user/1888

```
sysfs on /sys type sysfs (rw.nosuid.nodev.noexec.relatime)
proc on /proc type proc (rw.nosuld.nodev.noexec.relatime)
udev on /dev type devtmpfs (rw.nosuld.relatime.size=1973776k.nr inodes=493444.mode=755.inode64)
devpts on /dev/pts type devpts (rw.nosuld.noexec.relatime.gid=5.mode=620.ptmxmode=000)
tmpfs on /run type tmpfs (rw.nosuid.nodev.noexec.relatime.size=401824k.mode=755,inode64)
/dev/sda3 on / type ext4 (rw,relatime,errors=remount-ro)
securityfs on /sys/kernel/security type securityfs (rw.nosuld.nodev.noexec.relatime)
tmpfs on /dev/shm type tmpfs (rw.nosuld.nodev.inode64)
tmpfs on /run/lock type tmpfs (rw.nosuld.nodev.noexec.relatime.size=5120k.inode64)
cgroup2 on /sys/fs/cgroup type cgroup2 (rw,nosuld,nodev,noexec,relatine,nsdelegate,memory_recursiveprot)
pstore on /sys/fs/pstore type pstore (rw.nosuid.nodev.noexec.relatine)
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=15672)
hugetlbfs on /dev/hugepages type hugetlbfs (rw,relatime,pagesize=2M)
mqueue on /dev/mqueue type mqueue (rw.nosuld.nodev.noexec.relatime)
tracefs on /sys/kernel/tracing type tracefs (rw.nosuld.nodev.noexec.relatime)
debugfs on /sys/kernel/debug type debugfs (rw,nosuid,nodev,noexec,relatime)
fusectl on /sys/fs/fuse/connections type fusectl (rw.nosuid.nodev.noexec.relatime)
configfs on /sys/kernel/config type configfs (rw.nosuld.nodev.noexec.relatime)
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/core20_1587.snap on /snap/core20/1587 type squashfs (ro.nodev.relatime.errors=continue.x-gdu.hide)
/var/lib/snapd/snaps/core20 1778.snap on /snap/core20/1778 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/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/gnome-3-38-2004 119.snap on /snap/gnome-3-38-2004/119 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/snap-store 582.snap on /snap/snap-store/582 type squashfs (ro.nodev.relatime.errors=continue.x-gdu.hide)
/var/lib/snapd/snaps/snapd_17883.snap on /snap/snapd/17883 type squashfs (ro.nodev.relatime.errors=continue.x-gdu.hide)
/var/lib/snapd/snaps/snapd 17950.snap on /snap/snapd/17950 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)
/var/llb/snapd/snaps/snap-store 638.snap on /snap/snap-store/638 type squashfs (ro,nodev,relatime,errors=continue,x-gdu.hlde)
/var/lib/snapd/snaps/snapd-desktop-integration_49.snap on /snap/snapd-desktop-integration/49 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=iso8059-1,shortname=mixed.errors=remount-ro)
binfmt misc on /proc/sys/fs/binfmt misc type binfmt misc (rw.nosuid.nodev.noexec.relatime)
tmpfs on /run/snapd/ns type tmpfs (rw.nosuid.nodev.noexec.relatime.size=401824k.mode=755,inode64)
nsfs on /run/snapd/ns/snapd-desktop-integration.mnt type nsfs (rw)
tmpfs on /run/user/1000 type tmpfs (rw.nosuid.nodev.relatime.size=401820k.nr_inodes=100455,mode=700.uid=1000.gid=1000.inode64)
gvfsd-fuse on /run/user/1000/gvfs type fuse.gvfsd-fuse (rw.nosuld.nodev.relatime.user_id=1000,group_id=1000)
portal on /run/user/1000/doc type fuse.portal (rw.nosuid.nodev.relatime.user id=1000.group id=1000)
/dev/sr0 on /media/aryan/VBox GAs_7.0.4 type iso9660 (ro.nosuid.nodev.relatime.nojoliet.check=s.map=n.blocksize=2048.uid=1000.gid=1000.dmode=500.fmode=400.locharset=utf8.uhelper=udisks2)
/var/lib/snapd/snaps/firefox 2263.snap on /snap/firefox/2263 type squashfs (ro,nodev,relatime,errors=continue,x-gdu.hide)
nsfs on /run/snapd/ns/firefox.mnt type nsfs (rw)
/dev/sda3 on /var/snap/firefox/common/host-hunspell type ext4 (ro.noexec.noatime.errors=remount-ro)
aryan@aryan-VirtualBox:-S exit
```

aryan@aryan-VirtualBox:-5 mount