

1.Display your current directory.

command: pwd

output:

```
ak@ak-Latitude-E4300:~$ pwd
/home/ak
```

2.Change to the /etc directory.

command: cd /etc

output:

```
ak@ak-Latitude-E4300:~$ cd /etc
ak@ak-Latitude-E4300:/etc$
```

3.Now,change to your home directory using single commamd.

command: cd ~

output:

```
ak@ak-Latitude-E4300:/etc$ cd ~
ak@ak-Latitude-E4300:~$
```

4.Change to the parent directory of the current directory.

command: cd ..

output:

```
ak@ak-Latitude-E4300:~$ cd ..
ak@ak-Latitude-E4300:/home$
```

5.Go to the root directory.

command: cd /

output:

```
ak@ak-Latitude-E4300:/home$ cd /
ak@ak-Latitude-E4300:/$
```

6.Give a long listing of the root directory.

command: ls -l /

output:

```
ak@ak-Latitude-E4300:~$ ls -l /
total 100
drwxr-xr-x  2 root root  4096 Jan 30 22:52 bin
drwxr-xr-x  3 root root  4096 Jan 30 22:54 boot
drwxr-xr-x  2 root root  4096 Jan 30 22:48 cdrom
drwxr-xr-x 20 root root  4300 Feb 21 13:24 dev
drwxr-xr-x 122 root root 12288 Jan 30 22:53 etc
drwxr-xr-x  3 root root  4096 Jan 30 22:48 home
lrwxrwxrwx  1 root root    33 Jan 30 22:49 initrd.img -> boot/initrd.img-4.15.0-29-generic
lrwxrwxrwx  1 root root    33 Jan 30 22:44 initrd.img.old -> boot/initrd.img-4.15.0-29-generic
drwxr-xr-x 21 root root  4096 Jan 30 22:52 lib
drwxr-xr-x  2 root root  4096 Jul 25  2018 lib64
drwx-----  2 root root 16384 Jan 30 22:44 lost+found
drwxr-xr-x  3 root root  4096 Jan 30 23:05 media
drwxr-xr-x  2 root root  4096 Jul 25  2018 mnt
drwxr-xr-x  2 root root  4096 Jul 25  2018 opt
dr-xr-xr-x 232 root root    0 Feb 21 12:57 proc
drwx-----  3 root root  4096 Jul 25  2018 root
drwxr-xr-x 26 root root   760 Feb 21 14:06 run
drwxr-xr-x  2 root root 12288 Jan 30 22:54 sbin
drwxr-xr-x 10 root root  4096 Jan 30 23:00 snap
drwxr-xr-x  2 root root  4096 Jul 25  2018 srv
dr-xr-xr-x 13 root root    0 Feb 21 12:57 sys
drwxrwxrwt 16 root root  4096 Feb 21 14:06 tmp
drwxr-xr-x 10 root root  4096 Jul 25  2018 usr
drwxr-xr-x 14 root root  4096 Jul 25  2018 var
lrwxrwxrwx  1 root root    30 Jan 30 22:49 vmlinuz -> boot/vmlinuz-4.15.0-29-generic
```

7. Give a listing of a last 10 files in the root directory.

command: `ls / | tail`

output:

```
ak@ak-Latitude-E4300:/$ ls / | tail
root
run
sbin
snap
srv
sys
tmp
usr
var
vmlinuz
```

8. Stay where you are, and list the contents of /etc.

command: `ls /etc`

output:

```
ak@ak-Latitude-E4300:/$ ls /etc
acpi
adduser.conf
alternatives
anacrontab
app.conf
apm
apparmor
apparmor.d
appport
appstream.conf
apt
avahi
bash.bashrc
bash_completion
bash_completion.d
bindresvport.blacklist
binfmt.d
bluetooth
brlapi.key
brltty
brltty.conf
ca-certificates
ca-certificates.conf
calendar
chatscripts
console-setup
cracklib
cron.d
cron.daily
cron.hourly
cron.monthly
crontab
cron.weekly
cups
cupshelpers
dbus-1
dconf
debconf.conf
debian_version
default
deluser.conf
depmod.d
dhcp
dictionaries-common
dpkg
drirc
emacs
environment
firefox
fonts
fstab
fuse.conf
fwupd
gal.conf
gdb
gdm3
geoclue
ghostscript
glvnd
gnome
groff
group
group.d
grub.d
gshadow
gshadow-
gss
gtk-2.0
gtk-3.0
hdparm.conf
host.conf
hostname
hosts
hosts.allow
hosts.deny
hp
ifplugd
ImageMagick-6
init
init.d
intramfs-tools
inputrc
insserv.conf.d
iproute2
issue
issue.net
kernel
kernel-img.conf
kerneloops.conf
ldap
ld.so.cache
ld.so.conf
ld.so.conf.d
legal
libao.conf
libaudit.conf
libblockdev
libnl-3
libpaper.d
libreoffice
lintianrc
locale.alias
locale.gen
localtime
logcheck
login.defs
logrotate.conf
logrotate.d
lsb-release
ltrace.conf
machine-id
magic
magic.mime
mailcap
mailcap.order
manpath.config
mime.types
mke2fs.conf
modprobe.d
modules
modules-load.d
mtab
mtools.conf
nanorc
netplan
network
NetworkManager
networks
newt
nsswitch.conf
opt
os-release
PackageKit
pam.conf
pam.d
papersize
passwd
passwd-
pcmcia
perl
pki
pm
pnm2ppa.conf
polkit-1
popularity-contest.conf
ppp
profile
profile.d
protocols
pulse
python2.7
python3
python3.6
rc0.d
rc1.d
rc2.d
rc3.d
rc4.d
rc5.d
rc6.d
rcS.d
resolvconf
resolv.conf
rmt
rpc
rsyslog.conf
rsyslog.d
sane.d
securetty
security
selinux
sensors3.conf
sensors.d
services
shadow
shadow-
shells
skel
speech-dispatcher
ssh
ssl
subgid
subgid-
subuid
subuid-
sudoers
sudoers.d
sysctl.conf
sysctl.d
systemd
terminfo
thermald
thunderbird
timezone
tmpfiles.d
ucf.conf
udev
udisks2
ufw
updatedb.conf
update-manager
update-motd.d
update-notifier
UPower
usb_modeswitch.conf
usb_modeswitch.d
vim
vtrgb
wgetrc
wpa_supplicant
X11
xdg
zsh_command_not_found
```

9. Create a directory testdir in your home directory.

Command: `mkdir ~/testdir`

output:

```
ak@ak-Latitude-E4300:/$ mkdir ~/testdir
ak@ak-Latitude-E4300:/$ ls ~
Desktop      Downloads    Music        Public       Templates    Videos
Documents    examples.desktop  Pictures     sample.txt   testdir
```

10. Change to the /etc directory, stay there and create a directory newdir in your home directory (using a single command).

Command: `cd etc | mkdir ~/newdir`

output:

```
ak@ak-Latitude-E4300:/$ cd etc | mkdir ~/newdir
ak@ak-Latitude-E4300:/$ ls ~
Desktop    Downloads      Music  Pictures  sample.txt  testdir
Documents  examples.desktop  newdir  Public    Templates  Videos
```

11. Create in one command the directories ~/dir1/dir2/dir3 (dir3 is a subdirectory from dir2, and dir2 is a subdirectory from dir1).

Command: `mkdir -p ~/dir1/dir2/dir3`

output:

```
ak@ak-Latitude-E4300:~$ mkdir -p dir1/dir2/dir3
ak@ak-Latitude-E4300:~$ find dir1
dir1
dir1/dir2
dir1/dir2/dir3
```

12. Display the calendar for April 2019.

command: `cal april 2019`

output:

```
ak@ak-Latitude-E4300:~$ cal april 2019
    April 2019
Su Mo Tu We Th Fr Sa
    1  2  3  4  5  6
 7  8  9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30
```

13. Display that 'There are files in my current directory'. The should be filled with the count of the files.

Command: `echo "There are `ls | wc -w` in my current directory"`

output:

```
ak@ak-Latitude-E4300:~$ echo "There are `ls | wc -w` in my current directory"
There are 13 in my current directory
ak@ak-Latitude-E4300:~$
```

14. List all the files (including hidden files) in your home directory.

Command: `ls -a ~`

output:

```
ak@ak-Latitude-E4300:~$ ls -a ~
.          .bash_logout  .config  Documents  .gnupg      .mozilla
Pictures  sample.txt
..         .bashrc       Desktop  Downloads  .ICEauthority Music
.profile  .ssh          testdir
.bash_history .cache       dir1     examples.desktop .local      newdir
Public    .sudo_as_admin_successful  Videos
```

15.Redirect the output of the above command to a new file FileList.txt.

Command: `ls -a ~ >>FileList.txt`

output:

```
ak@ak-Latitude-E4300:~$ ls -a ~ >>FileList.txt
ak@ak-Latitude-E4300:~$ cat FileList.txt
.
..
.bash_history
.bash_logout
.bashrc
.cache
.config
Desktop
dir1
Documents
Downloads
examples.desktop
FileList.txt
.gnupg
.ICEauthority
.local
.mozilla
Music
newdir
Pictures
.profile
Public
sample.txt
.ssh
.sudo_as_admin_successful
Templates
testdir
Videos
```

16.Redirect the number of lines of FileList.txt to CountFile.txt.

Command: `wc -l Filelist.txt >> countfile.txt`

output:

```
ak@ak-Latitude-E4300:~$ wc -l FileList.txt >> countfile.txt
ak@ak-Latitude-E4300:~$ cat countfile.txt
28 FileList.txt
```

17.List all the files in your home directory starting with 's' .

command: `ls | grep s*`

output:

```
ak@ak-Latitude-E4300:~$ ls | grep s*
sample.txt
```

18.List all the file-names starting with "a", "b" or "s" .

command: `ls [abs]*`

output:

```
abc.txt  bag.txt  sample.txt
ak@ak-Latitude-E4300:~$ ls [abs]*
abc.txt  bag.txt  sample.txt
```

19. Create two files 'Countries.txt', containing country names and their corresponding capital cities and 'Story.txt' contains some arbitrary lines of text.

Command: nano countries.txt

nano story.txt

output:

```
ak@ak-Latitude-E4300:~$ nano countries.txt
ak@ak-Latitude-E4300:~$ nano story.txt
ak@ak-Latitude-E4300:~$ cat countries.txt
country      capital
australia    vienna
bangladesh   dhaka
china        beiging
france        paris
india         new delhi
italy         rome
japan         tokyo
pakistan     islamabad
russia        moskow
spain         madrid

ak@ak-Latitude-E4300:~$ cat story.txt
It is the year 1975, when Charlotte Von Sledvin, a 19-year-old student of a Swedish
royal family, travels to India to get a portrait made by a gifted artist. The artist was
born into a poor Indian family of the lowest caste, also known as the
"untouchables." Despite the incredibly difficult circumstances, the artist named
Pradyumna Kumar Mahanandia had gained an outstanding reputation for being a
gifted painter. His reputation led Charlotte Von Sledvin to travel all the way to India to get her portrait done.
```

20. Convert all lowercase characters from 'Story.txt' to uppercase and store it in a file 'Capstory.txt'.

Command: tr [:lower:] [:upper:] < story.txt >> capstory.txt

output:

```
ak@ak-Latitude-E4300:~$ tr [:lower:] [:upper:] < story.txt >> capstory.txt
ak@ak-Latitude-E4300:~$ cat capstory.txt
IT IS THE YEAR 1975, WHEN CHARLOTTE VON SLEDVIN, A 19-YEAR-OLD STUDENT OF A SWED
ISH
ROYAL FAMILY, TRAVELS TO INDIA TO GET A PORTRAIT MADE BY A GIFTED ARTIST. THE AR
TIST WAS
BORN INTO A POOR INDIAN FAMILY OF THE LOWEST CASTE, ALSO KNOWN AS THE
"UNTOUCHABLES." DESPITE THE INCREDIBLY DIFFICULT CIRCUMSTANCES, THE ARTIST NAMED
PRADYUMNA KUMAR MAHANANDIA HAD GAINED AN OUTSTANDING REPUTATION FOR BEING A
GIFTED PAINTER. HIS REPUTATION LED CHARLOTTE VON SLEDVIN TO TRAVEL ALL THE WAY T
O INDIA TO GET HER PORTRAIT DONE.
```

21. Toggle the cases in 'Story.txt' and store it in a file 'Togglestory.txt'.

Command: tr 'A-Za-z' 'a-zA-Z' < story.txt >> togglestory.txt

output:

```
ak@ak-Latitude-E4300:~$ tr 'A-Za-z' 'a-zA-Z' < story.txt >> togglestory.txt
ak@ak-Latitude-E4300:~$ cat togglestory.txt
it IS THE year 1975, WHEN charlotte von sledvin, A 19-YEAR-OLD STUDENT OF A swe
dish
ROYAL FAMILY, TRAVELS TO india TO GET A PORTRAIT MADE BY A GIFTED ARTIST. THE AR
TIST WAS
BORN INTO A POOR indian FAMILY OF THE LOWEST CASTE, ALSO KNOWN AS THE
"UNTOUCHABLES." DESPITE THE INCREDIBLY DIFFICULT CIRCUMSTANCES, THE ARTIST NAMED
pRADYUMNA KUMAR mAHANANDIA HAD GAINED AN OUTSTANDING REPUTATION FOR BEING A
GIFTED PAINTER. HIS REPUTATION LED charlotte von sledvin TO TRAVEL ALL THE WAY T
O india TO GET HER PORTRAIT DONE.
```


22.Sort the contents of 'Countries.txt' with Capital as the primary sort key and write the sorted output to 'SortCountry.txt'.

Command: sort -k2 countries.txt >> sortCountries.txt

output:

```
ak@ak-Latitude-E4300:~$ sort -k2 countries.txt >> sortCountries.txt
ak@ak-Latitude-E4300:~$ cat sortCountries.txt

china beijing
bangladesh dhaka
pakistan islamabad
spain madrid
russia moskow
india new delhi
france paris
italy rome
japan tokyo
australia vienna
```

23.Display only the capital cities from 'Countries.txt'.

Command: awk '{print \$2}' countries.txt

output:

```
ak@ak-Latitude-E4300:~$ awk '{print $2}' countries.txt

vienna
dhaka
beijing
paris
new
rome
tokyo
islamabad
moskow
madrid
```

24.Locate all '.txt' and '.doc' files in the current directory .

Command:ls *.txt *.doc

output:

```
ak@ak-Latitude-E4300:~$ ls *.txt *.doc
abc.doc  bag.txt      countries.txt  sortCountries.txt  togglestory.txt
abc.txt  capstory.txt  FileList.txt  sortcountry.txt
a.txt    countfile.txt sample.txt     story.txt
```

25.Count the number of occurrence of 'the' in 'Story.txt'.

Command: grep -o the countries.txt

output:

```
ak@ak-Latitude-E4300:~$ grep -o the story.txt | wc -w
6
```

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