1.Display your current directory.

command: **pwd**output:

ak@ak-latitude-E4300:~\$ pwo

```
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 command.

```
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 -1/

output:

```
ak@ak-Latitude-E4300:~$ ls -l /
total 100
drwxr-xr-x
              2 root root 4096 Jan 30 22:52 bin
            3 root root
2 root root
drwxr-xr-x
                           4096 Jan 30 22:54 boot
                           4096 Jan 30 22:48 cdrom
drwxr-xr-x
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
            1 root root
1 root root
                             33 Jan 30 22:49 initrd.img -> boot/initrd.img-4.15.0-29-generic
lrwxrwxrwx
                              33 Jan 30 22:44 initrd.img.old -> boot/initrd.img-4.15.0-29-generic
lrwxrwxrwx
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
           2 root root
                           4096 Jul 25 2018 mnt
drwxr-xr-x
                           4096 Jul 25 2018 opt
drwxr-xr-x
            2 root root
dr-xr-xr-x 232 root root
                             0 Feb 21 12:57 proc
                           4096 Jul 25 2018 root
drwx-----
             3 root 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
                           4096 Jul 25
                                        2018 srv
            2 root root
dr-xr-xr-x 13 root root
                             0 Feb 21 12:57 sys
                           4096 Feb 21 14:06 tmp
drwxrwxrwt 16 root root
drwxr-xr-x 10 root root
                           4096 Jul 25 2018 usr
drwxr-xr-x 14 root root
                           4096 Jul 25 2018 var
                             30 Jan 30 22:49 vmlinuz -> boot/vmlinuz-4.15.0-29-generic
lrwxrwxrwx
             1 root root
```

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

command: ls / | tail

output:

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

9. Create a directory testdir in your home directory.

Command: mkdir ~/testdir

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

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:

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"
```

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

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

Command: Is -a ~

output:

```
ak@ak-Latitude-E4300:~$ ls -a ~
                                                                          .mozilla
               .bash logout .config
                                       Documents
                                                          .qnupq
                                       Templates
 Pictures
           sample.txt
               .bashrc
                                       Downloads
                                                          .ICEauthority
                              Desktop
                                                                         Music
 .profile .ssh
                                       testdir
               .cache
                                       examples.desktop
 bash history
                              dir1
                                                         .local
                                                                         newdir
 Public
           .sudo as admin successful
                                       Videos
```

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

Command: İs -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
.confia
Desktop
dir1
Documents
Downloads
examples.desktop
FileList.txt
. anupa
.ICEauthority
.local
.mozilla
Music
newdir
Pictures
.profile
Public
sample.txt
.ssh
.sudo as admin successful
Templates
testdir
Vi dens
```

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: Is [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
australia
                                         capital
                                          vienna
bangladesh
                                          dhaka
                                          beiging
china
 france
                                          paris
                                          new delhi
india
italy
                                          гоме
japan
                                          tokyo
pakistan
                                          islamabad
 russia
                                          moskow
spain
                                          madrid
ak@ak-Latitude-E4300:~$ cat story.txt
akgak-Latttude-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 beiging
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
beiging
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 occurence of 'the' in 'Story.txt'.

Command: **grep -o the countries.txt** output:

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

SUBMITTED BY ABDUL KHADER PV ROLL NO:64