```
ak@ubuntu01:~$ pwd
/home/ak
```

```
ak@ubuntu01:~$ ls -l /
total 437200
drwxr-xr-x  2 root root      4096 Mar 27 18:52 bin
drwxr-xr-x  4 root root      4096 Apr 14 15:12 boot
drwxr-xr-x 18 root root      3880 Apr 15 17:37 dev
drwxr-xr-x 88 root root      4096 Apr 14 13:44 etc
drwxr-xr-x  3 root root      4096 Mar 27 18:34 home
lrwxrwxrwx  1 root root        33 Apr 14 13:43 initrd.img -> boot/initrd.img-4.15.0-96-generic
lrwxrwxrwx  1 root root        33 Apr 14 13:43 initrd.img.old ->
boot/initrd.img-4.15.0-91-generic
drwxr-xr-x 22 root root      4096 Mar 27 18:30 lib
drwxr-xr-x  2 root root      4096 Mar 27 18:24 lib64
drwx------  2 root root     16384 Mar 27 18:23 lost+found
drwxr-xr-x  3 root root      4096 Mar 27 18:24 media
drwxr-xr-x  2 root root      4096 Feb  3 20:22 mnt
drwxr-xr-x  3 root root      4096 Mar 27 19:55 opt
dr-xr-xr-x 96 root root         0 Apr 15 17:37 proc
drwx------  2 root root      4096 Mar 27 18:23 root
drwxr-xr-x 23 root root       800 Apr 15 17:37 run
drwxr-xr-x  2 root root     12288 Apr 15 17:37 sbin
drwxr-xr-x  2 root root      4096 Mar 27 18:35 snap
drwxr-xr-x  2 root root      4096 Feb  3 20:22 srv
-rw-------  1 root root 447600640 Mar 27 18:23 swapfile
dr-xr-xr-x 13 root root         0 Apr 15 17:36 sys
drwxrwxrwt  8 root root      4096 Apr 15 17:37 tmp
drwxr-xr-x 10 root root      4096 Mar 27 18:24 usr
drwxr-xr-x 13 root root      4096 Mar 27 18:32 var
-rw-------  1 root root         0 Apr 15 17:37 VBox.log
lrwxrwxrwx  1 root root        30 Apr 14 13:43 vmlinuz -> boot/vmlinuz-4.15.0-96-generic
lrwxrwxrwx  1 root root        30 Apr 14 13:43 vmlinuz.old -> boot/vmlinuz-4.15.0-91-generic
ak@ubuntu01:~$ ls
ak@ubuntu01:~$ ls ~
ak@ubuntu01:~$ ls -l
total 0
ak@ubuntu01:~$ ls -a
.  ..  .bash_history  .bash_logout  .bashrc  .cache  .gnupg  .profile
.sudo_as_admin_successful
ak@ubuntu01:~$ ls -la
total 32
drwxr-xr-x 4 ak   ak   4096 Mar 27 18:55 .
drwxr-xr-x 3 root root 4096 Mar 27 18:34 ..
-rw------- 1 root root  689 Apr 14 14:18 .bash_history
-rw-r--r-- 1 ak   ak    220 Mar 27 18:34 .bash_logout
-rw-r--r-- 1 ak   ak   3771 Mar 27 18:34 .bashrc
drwx------ 2 ak   ak   4096 Mar 27 18:43 .cache
drwx------ 3 ak   ak   4096 Mar 27 18:43 .gnupg
-rw-r--r-- 1 ak   ak    807 Mar 27 18:34 .profile
-rw-r--r-- 1 ak   ak      0 Mar 27 18:45 .sudo_as_admin_successful
ak@ubuntu01:~$ ls -lda ~
drwxr-xr-x 4 ak ak 4096 Mar 27 18:55 /home/ak
```

ls command is used for listing content of filesystem.
-a option is used to list all entries including that ones which start with .
-l option is used to list entries using a long listing format
-d option is used to list only directories

```
ak@ubuntu01:~$ mkdir test
ak@ubuntu01:~$ cd test
ak@ubuntu01:~/test$ pwd
/home/ak/test
ak@ubuntu01:~/test$ touch test.txt
ak@ubuntu01:~/test$ ls -l test.txt
-rw-rw-r-- 1 ak ak 0 Apr 15 17:59 test.txt
ak@ubuntu01:~/test$ mkdir test2
ak@ubuntu01:~/test$ mv test.txt test2
ak@ubuntu01:~/test$ cd test2
ak@ubuntu01:~/test/test2$ ls
test.txt
ak@ubuntu01:~/test/test2$ mv test.txt test2.txt
ak@ubuntu01:~/test/test2$ ls
test2.txt
ak@ubuntu01:~/test/test2$ cp test2.txt ..
ak@ubuntu01:~/test/test2$ cd ..
ak@ubuntu01:~/test$ ls
test2  test2.txt
ak@ubuntu01:~/test$ rm test2.txt
ak@ubuntu01:~/test$ rmdir test2
rmdir: failed to remove 'test2': Directory not empty
ak@ubuntu01:~/test$
```

mkdir - create the directory
cd - change the current directory
pwd - print the name of current directory
touch - change file timestamp (or create the file if it is missing)
ls - list the contents of the directory
mv - move or rename files
cp - copy files or directories
rm - remove files or directories
rmdir - remove empty directories

```
ak@ubuntu01:~/test$ cat /etc/fstab
# /etc/fstab: static file system information.
#
# Use 'blkid' to print the universally unique identifier for a
# device; this may be used with UUID= as a more robust way to name devices
# that works even if disks are added and removed. See fstab(5).
#
# <file system> <mount point>   <type> <options>       <dump>  <pass>
# / was on /dev/sda2 during installation
UUID=5d691983-9cfb-4c67-b36b-6583dcd76ce3 /              ext4    errors=remount-ro 0       1
# /boot was on /dev/sda1 during installation
UUID=b69cb2c0-8a9b-4be3-aab6-992d5ed28ca4 /boot          ext4    defaults        0       2
/swapfile                                 none           swap    sw              0       0
ak@ubuntu01:~/test$ less /etc/fstab
ak@ubuntu01:~/test$ more /etc/fstab
# /etc/fstab: static file system information.
#
# Use 'blkid' to print the universally unique identifier for a
# device; this may be used with UUID= as a more robust way to name devices
# that works even if disks are added and removed. See fstab(5).
#
# <file system> <mount point>   <type> <options>       <dump>  <pass>
# / was on /dev/sda2 during installation
UUID=5d691983-9cfb-4c67-b36b-6583dcd76ce3 /              ext4    errors=remount-ro 0       1
```

```
# /boot was on /dev/sda1 during installation
UUID=b69cb2c0-8a9b-4be3-aab6-992d5ed28ca4 /boot              ext4     defaults        0       2
/swapfile                                   none             swap     sw              0       0
ak@ubuntu01:~/test$
```

cat - command is used to print one or several files to standard output (stdout)
less - command that shows the content of the file, but do not read the entire file before output to stdout, also you can scroll and search through the contents up and down
more - command that shows the content of the file, but you can scroll and search only in one direction downwards through the contents

---

```
ak@ubuntu01:~$ ls -l
total 4
drwxrwxr-x 3 ak ak 4096 Apr 15 17:59 test
ak@ubuntu01:~$ ls -l ./test
total 4
drwxrwxr-x 2 ak ak 4096 Apr 15 17:59 test2
ak@ubuntu01:~$ tar -cf ./test.tar ./test
ak@ubuntu01:~$ ls -l
total 16
drwxrwxr-x 3 ak ak  4096 Apr 15 17:59 test
-rw-rw-r-- 1 ak ak 10240 Apr 15 19:48 test.tar
ak@ubuntu01:~$ tar -czf ./test.tar.gz ./test
ak@ubuntu01:~$ ls -l
total 20
drwxrwxr-x 3 ak ak  4096 Apr 15 17:59 test
-rw-rw-r-- 1 ak ak 10240 Apr 15 19:48 test.tar
-rw-rw-r-- 1 ak ak   159 Apr 15 19:48 test.tar.gz
ak@ubuntu01:~$ gzip -c ./test.tar > ./test.tar.gzip
ak@ubuntu01:~$ ls -l
total 24
drwxrwxr-x 3 ak ak  4096 Apr 15 17:59 test
-rw-rw-r-- 1 ak ak 10240 Apr 15 19:48 test.tar
-rw-rw-r-- 1 ak ak   159 Apr 15 19:48 test.tar.gz
-rw-rw-r-- 1 ak ak   168 Apr 15 19:51 test.tar.gzip
ak@ubuntu01:~$ rm ./test.tar
ak@ubuntu01:~$ ls -l
total 12
drwxrwxr-x 3 ak ak 4096 Apr 15 17:59 test
-rw-rw-r-- 1 ak ak  159 Apr 15 19:48 test.tar.gz
-rw-rw-r-- 1 ak ak  168 Apr 15 19:51 test.tar.gzip
ak@ubuntu01:~$ rm -r ./test
ak@ubuntu01:~$ ls -l
total 8
-rw-rw-r-- 1 ak ak 159 Apr 15 19:48 test.tar.gz
-rw-rw-r-- 1 ak ak 168 Apr 15 19:51 test.tar.gzip
ak@ubuntu01:~$ gunzip -c ./test.tar.gzip > ./test.tar
ak@ubuntu01:~$ ls -l
total 20
-rw-rw-r-- 1 ak ak 10240 Apr 15 19:55 test.tar
-rw-rw-r-- 1 ak ak   159 Apr 15 19:48 test.tar.gz
-rw-rw-r-- 1 ak ak   168 Apr 15 19:51 test.tar.gzip
ak@ubuntu01:~$ tar -xf ./test.tar
ak@ubuntu01:~$ ls -l
total 24
drwxrwxr-x 3 ak ak  4096 Apr 15 17:59 test
-rw-rw-r-- 1 ak ak 10240 Apr 15 19:55 test.tar
-rw-rw-r-- 1 ak ak   159 Apr 15 19:48 test.tar.gz
-rw-rw-r-- 1 ak ak   168 Apr 15 19:51 test.tar.gzip
```

```
ak@ubuntu01:~$ ls -l ./test
total 4
drwxrwxr-x 2 ak ak 4096 Apr 15 17:59 test2
ak@ubuntu01:~$ rm -r ./test
ak@ubuntu01:~$ ls -l
total 20
-rw-rw-r-- 1 ak ak 10240 Apr 15 19:55 test.tar
-rw-rw-r-- 1 ak ak   159 Apr 15 19:48 test.tar.gz
-rw-rw-r-- 1 ak ak   168 Apr 15 19:51 test.tar.gzip
ak@ubuntu01:~$ tar -xzf ./test.tar.gz
ak@ubuntu01:~$ ls -l
total 24
drwxrwxr-x 3 ak ak  4096 Apr 15 17:59 test
-rw-rw-r-- 1 ak ak 10240 Apr 15 19:55 test.tar
-rw-rw-r-- 1 ak ak   159 Apr 15 19:48 test.tar.gz
-rw-rw-r-- 1 ak ak   168 Apr 15 19:51 test.tar.gzip
ak@ubuntu01:~$ ls -l ./test
total 4
drwxrwxr-x 2 ak ak 4096 Apr 15 17:59 test2
ak@ubuntu01:~$
```