

Assignment 1

man ls

```
LS(1)                                     User Commands                               LS(1)

NAME
  ls - list directory contents

SYNOPSIS
  ls [OPTION]... [FILE]...

DESCRIPTION
  List information about the FILES (the current directory by default). Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.

  Mandatory arguments to long options are mandatory for short options too.

  -a, --all
      do not ignore entries starting with .

  -A, --almost-all
      do not list implied . and ..

  --author
      with -l, print the author of each file

  -b, --escape
      print C-style escapes for nongraphic characters

  --block-size=SIZE
      with -l, scale sizes by SIZE when printing them; e.g., '--block-size=M'; see SIZE format

Manual page ls(1) line 1 (press h for help or q to quit)
```

uname

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ uname
Linux
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$
```

cal

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ cal
      October 2025
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 31

sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$
```

pwd

hostname

date

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ uname
Linux
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ pwd
/home/sunbeam/Desktop/demo
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ hostname
sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ date
Monday 27 October 2025 05:26:49 PM IST
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$
```

ls

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ ls
a.txt  b.txt
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$
```

dir

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ ls
a.txt  b.txt
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ dir
a.txt  b.txt
```

cat

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ cat
Hello world
Hello world
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$
```

cat>>

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ cat > a.txt
hello
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ cat >> a.txt
world
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ cat a.txt
hello
world
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$
```

cp

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ cp a.txt b.txt
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ ls
a.txt  b.txt
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$
```

mv

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ mv b.txt ../test
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ cd te
bash: cd: te: No such file or directory
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ cd ../
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop$ cd test/
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/test$ ls
b.txt
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/test$
```

mv

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/test$ ls
b.txt
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/test$ mv b.txt c.txt
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/test$ ls
c.txt
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/test$
```

tac

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ cat a.txt
hello
world
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ tac a.txt
world
hello
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$
```

rev

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ cat a.txt
hello
world
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ rev a.txt
olleh
dlrow
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$
```

WC

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ cat a.txt
hello
world
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ wc a.txt
 2  2 12 a.txt
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$
```

mkdir

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop$ ls
demo
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop$ mkdir test
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop$ ls
demo test
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop$
```

cd

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop$ ls
demo test
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop$ cd demo
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$
```

rm

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ ls
a.txt  d.txt
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ rm d.txt
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ ls
a.txt
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$
```

rmdir

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ mkdir folder
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ ls
a.txt  folder
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ rmdir folder/
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ ls
a.txt
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$
```


touch

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA: ~/Desktop/demo$ ls
a.txt
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA: ~/Desktop/demo$ touch b.txt
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA: ~/Desktop/demo$ ls
a.txt  b.txt
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA: ~/Desktop/demo$ touch c.txt
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA: ~/Desktop/demo$ ls
a.txt  b.txt  c.txt
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA: ~/Desktop/demo$
```

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA: ~/Desktop/demo$ stat a.txt
  File: a.txt
  Size: 12          Blocks: 8          IO Block: 4096   regular file
Device: 804h/2052d Inode: 4194734    Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/  sunbeam)   Gid: ( 1000/  sunbeam)
Access: 2025-10-27 17:37:18.661272343 +0530
Modify: 2025-10-27 17:37:08.348379626 +0530
Change: 2025-10-27 17:37:08.348379626 +0530
 Birth: 2025-10-27 16:23:38.687829698 +0530
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA: ~/Desktop/demo$ touch a.txt
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA: ~/Desktop/demo$ stat a.txt
  File: a.txt
  Size: 12          Blocks: 8          IO Block: 4096   regular file
Device: 804h/2052d Inode: 4194734    Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/  sunbeam)   Gid: ( 1000/  sunbeam)
Access: 2025-10-27 17:49:17.681639278 +0530
Modify: 2025-10-27 17:49:17.681639278 +0530
Change: 2025-10-27 17:49:17.681639278 +0530
 Birth: 2025-10-27 16:23:38.687829698 +0530
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA: ~/Desktop/demo$
```

sort

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA: ~/Desktop/demo$ cat a.txt
Cat
Fish
Apple
Dog
Ball
Eye
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA: ~/Desktop/demo$ sort a.txt
Apple
Ball
Cat
Dog
Eye
Fish
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA: ~/Desktop/demo$
```

uniq

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA: ~/Desktop/demo$ cat >> a.txt
Eye
Eye
Ice
Ice
Ice
Joker
Joker
King
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA: ~/Desktop/demo$ cat a.txt
Cat
Fish
Apple
Dog
Ball
Eye
Apple
Ball
Cat
Eye
Eye
Ice
Ice
Ice
Joker
Joker
King
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA: ~/Desktop/demo$
```

```
Dog
Ball
Eye
Apple
Ball
Cat
Eye
Eye
Ice
Ice
Ice
Joker
Joker
King
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA: ~/Desktop/demo$ uniq a.txt
Cat
Fish
Apple
Dog
Ball
Eye
Apple
Ball
Cat
Eye
Ice
Joker
King
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA: ~/Desktop/demo$
```

head

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ cat a.txt
Cat
Fish
Apple
Dog
Ball
Eye
Apple
Ball
Cat
Eye
Eye
Ice
Ice
Ice
Joker
Joker
King
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ head a.txt
Cat
Fish
Apple
Dog
Ball
Eye
Apple
Ball
Cat
Eye
```

tail

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ cat a.txt
Cat
Fish
Apple
Dog
Ball
Eye
Apple
Ball
Cat
Eye
Eye
Ice
Ice
Ice
Joker
Joker
King
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ tail a.txt
Ball
Cat
Eye
Eye
Ice
Ice
Ice
Joker
Joker
King
```


factor

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ factor 18
18: 2 3 3
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ factor 29
29: 29
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ factor 99
99: 3 3 11
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$
```

alias / unalias

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ alias dog="cat"
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ dog a.txt
Apple
Ball
cat
Dog
Eye
Fish
Goat
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ unalias dog
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ dog a.txt
Command 'dog' not found, did you mean:
  command 'eog' from deb eog (42.0-1)
  command 'dig' from deb bind9-dnsutils (1:9.18.28-0ubuntu0.22.04.1)
Try: sudo apt install <deb name>
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$
```

echo

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ echo "Hello World"
Hello World
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$
```

ps

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ echo "Hello World"
Hello World
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ ps
  PID TTY          TIME CMD
 11616 pts/0    00:00:01 bash
 20007 pts/0    00:00:00 ps
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$
```

kill

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ ps
  PID TTY          TIME CMD
 11616 pts/0    00:00:01 bash
 20185 pts/0    00:00:00 ps
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ kill 11616
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$
```

env

```
sunbeam@sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:~/Desktop/demo$ env
SHELL=/bin/bash
SESSION_MANAGER=local/sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:@/tmp/.ICE-unix/1396,unix/sunbeam-VivoBook-ASUSLaptop-X515JA-X515JA:/tmp/.ICE-unix/1396
```