

EXPERIMENT NO.1

NAME: KOMAL MAHESH CHITNIS

DIV: A

MOODLE ID: 20102068

ROLL NO.: 26

```
komalc@operating: ~  
komalc@operating:~$ ls  
Desktop Documents Downloads Music Pictures Public Templates Videos  
komalc@operating:~$ ls -r  
Videos Templates Public Pictures Music Downloads Documents Desktop  
komalc@operating:~$ ls -al  
total 84  
drwxr-xr-x 15 komalc komalc 4096 Feb 20 16:09 .  
rhythmbox x 4 root root 4096 Feb 20 16:06 ..  
-rw-r--r-- 1 komalc komalc 220 Feb 20 16:06 .bash_logout  
-rw-r--r-- 1 komalc komalc 3771 Feb 20 16:06 .bashrc  
drwx----- 11 komalc komalc 4096 Feb 20 16:08 .cache  
drwx----- 10 komalc komalc 4096 Feb 20 16:08 .config  
drwxr-xr-x 2 komalc komalc 4096 Feb 20 16:07 Desktop  
drwxr-xr-x 2 komalc komalc 4096 Feb 20 16:07 Documents  
drwxr-xr-x 2 komalc komalc 4096 Feb 20 16:07 Downloads  
drwx----- 3 komalc komalc 4096 Feb 20 16:09 .gnupg  
drwxr-xr-x 3 komalc komalc 4096 Feb 20 16:07 .local  
drwxr-xr-x 2 komalc komalc 4096 Feb 20 16:07 Music  
drwxr-xr-x 2 komalc komalc 4096 Feb 20 16:07 Pictures  
-rw-r--r-- 1 komalc komalc 807 Feb 20 16:06 .profile  
drwxr-xr-x 2 komalc komalc 4096 Feb 20 16:07 Public  
drwx----- 2 komalc komalc 4096 Feb 20 16:09 .ssh  
drwxr-xr-x 2 komalc komalc 4096 Feb 20 16:07 Templates  
-rw-r----- 1 komalc komalc 5 Feb 20 16:07 .vboxclient-clipboard.pid
```

```
komalc@operating:~$ ls -a  
.  
..  
.bash_logout  
.bashrc  
komalc@operating:~$ cat>file1  
hello  
komalc@operating:~$ cat>file2  
peers  
komalc@operating:~$ cat file1 file2 > file3  
komalc@operating:~$ cat file3  
hello  
peers
```

```
komalc@operating:~$ cat>file4  
konichiwa  
komalc@operating:~$ mv file2 file4  
komalc@operating:~$ cat file4  
peers
```

```

komalc@operating:~$ cat>file4
konichiwa
komalc@operating:~$ mv file2 file4
komalc@operating:~$ cat file4
peers
komalc@operating:~$ cat file2
cat: file2: No such file or directory
komalc@operating:~$ mkdir komal
komalc@operating:~$ ls
Desktop  Downloads  file4  Music  Public  Videos
Documents file3      komal  Pictures Templates
komalc@operating:~$ rmdir komal
komalc@operating:~$ ls
Desktop  Downloads  file4  Pictures  Templates
Documents file3      Music  Public    Videos
komalc@operating:~$ mkdir komal
komalc@operating:~$ mv komal music
komalc@operating:~$ ls
Desktop  Downloads  file4  Music  Public  Videos
Documents file3      music  Pictures Templates
komalc@operating:~$ man ls

```

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komalc@operating: ~

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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 below

-B, --ignore-backups
do not list implied entries ending with **~**

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

komalc@operating:~\$ clear

```
komalc@operating:~$ history
```

```
1  ls
2  ls-r
3  clear
4  ls
5  ls -r
6  ls -al
7  ls -a
8  cat>file1
9  cat>file2
10 cat file1 file2 > file3
11 cat file3
12 rm file1
13 cat file1
14 cat>file3
15 cat file3
16 cleAR
17 clear
18 cat>file4
19 mv file2 file4
20 cat file4
21 cat file2
22 mkdir komal
23 ls
24 rmdir komal
25 ls
26 mkdir komal
27 mv komal music
28 ls
29 clear
30 man ls
31 clear
32 history
```

```
komalc@operating:~$
```

```
komalc@operating:~$ sudo apt-get update
```

```
[sudo] password for komalc:
```

```
komalc@operating:~$ date
```

```
Sunday 20 February 2022 04:19:15 PM IST
```

```
komalc@operating:~$ df
```

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
udev	2508492	0	2508492	0%	/dev
tmpfs	507624	1724	505900	1%	/run
/dev/sda5	102919080	10119720	87528320	11%	/
tmpfs	2538108	0	2538108	0%	/dev/shm
tmpfs	5120	4	5116	1%	/run/lock
tmpfs	2538108	0	2538108	0%	/sys/fs/cgroup
/dev/loop0	128	128	0	100%	/snap/bare/5
/dev/loop1	56832	56832	0	100%	/snap/core18/2128
/dev/loop2	56960	56960	0	100%	/snap/core18/2284
/dev/loop4	224256	224256	0	100%	/snap/gnome-3-34-1804/77
/dev/loop3	224256	224256	0	100%	/snap/gnome-3-34-1804/72
/dev/loop7	66688	66688	0	100%	/snap/gtk-common-themes/1515
/dev/loop5	63488	63488	0	100%	/snap/core20/1328
/dev/loop6	254848	254848	0	100%	/snap/gnome-3-38-2004/99
/dev/loop8	253952	253952	0	100%	/snap/gnome-3-38-2004/87
/dev/loop9	66816	66816	0	100%	/snap/gtk-common-themes/1519
/dev/loop11	44672	44672	0	100%	/snap/snapd/14978
/dev/loop12	55552	55552	0	100%	/snap/snap-store/558
/dev/loop10	52224	52224	0	100%	/snap/snap-store/547
/dev/sda1	523248	4	523244	1%	/boot/efi
tmpfs	507620	28	507592	1%	/run/user/1000
tmpfs	507620	76	507544	1%	/run/user/1001


```

komalc@operating:~$ du
4      ./Public
4      ./gnupg/private-keys-v1.d
16     ./gnupg
4      ./Pictures
4      ./Documents
4      ./music
4      ./Templates
4      ./ssh
4      ./Music
4      ./Downloads
4      ./Videos
4      ./config/update-notifier
4      ./config/goa-1.0
84     ./config/pulse
4      ./config/nautilus
16     ./config/evolution/sources
20     ./config/evolution
8      ./config/dconf
8      ./config/gtk-3.0
8      ./config/ibus/bus
12     ./config/ibus
160    ./config
8      ./cache/mesa_shader_cache/2f
8      ./cache/mesa_shader_cache/53
12     ./cache/mesa_shader_cache/0c
8      ./cache/mesa_shader_cache/7c
8      ./cache/mesa_shader_cache/7d

```

```

komalc@operating:~$ pwd
/home/komalc
komalc@operating:~$ echo 'hello'
hello

```

```

komalc@operating:~$ cat file4
peers
komalc@operating:~$ vi file4
komalc@operating:~$ cat file4
peellors

```

```

komalc@operating:~$ top

```

```

Tasks: 289 total,  1 running, 288 sleeping,  0 stopped,  0 zombie
%Cpu(s):  3.9 us,  1.6 sy,  0.0 ni, 94.3 id,  0.2 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :  4957.2 total,  1768.2 free,  1589.9 used,  1599.1 buff/cache
MiB Swap:  2048.0 total,  2048.0 free,  0.0 used.  3115.6 avail Mem

```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
3947	komalc	20	0	5162552	344916	126616	S	5.6	6.8	0:25.54	gnome-shell
3654	komalc	20	0	1137060	69532	43924	S	5.3	1.4	0:10.79	Xorg
4462	komalc	20	0	823300	51332	38740	S	4.7	1.0	0:05.98	gnome-termin+
1612	operati+	20	0	164004	2668	2308	S	0.3	0.1	0:03.08	VBoxClient
3795	komalc	20	0	164004	2780	2412	S	0.3	0.1	0:02.72	VBoxClient
1	root	20	0	167688	11384	8200	S	0.0	0.2	0:02.42	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kthreadd
3	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_gp
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_par_gp
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/0:0H+
8	root	20	0	0	0	0	I	0.0	0.0	0:00.41	kworker/u8:0+
9	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	mm_percpu_wq
10	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_tasks_ru+
11	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_tasks_tr+
12	root	20	0	0	0	0	S	0.0	0.0	0:00.04	ksoftirqd/0
13	root	20	0	0	0	0	I	0.0	0.0	0:00.58	rcu_sched
14	root	rt	0	0	0	0	S	0.0	0.0	0:00.02	migration/0
15	root	-51	0	0	0	0	S	0.0	0.0	0:00.00	idle_inject/0
16	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/0
17	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/1
18	root	-51	0	0	0	0	S	0.0	0.0	0:00.00	idle_inject/1
19	root	rt	0	0	0	0	S	0.0	0.0	0:00.50	migration/1
20	root	20	0	0	0	0	S	0.0	0.0	0:00.05	ksoftirqd/1
22	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/1:0H+
23	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/2
24	root	-51	0	0	0	0	S	0.0	0.0	0:00.00	idle_inject/2

```
operating@operating:~$ pidof bash
2963
operating@operating:~$ kill 2963
operating@operating:~$
```