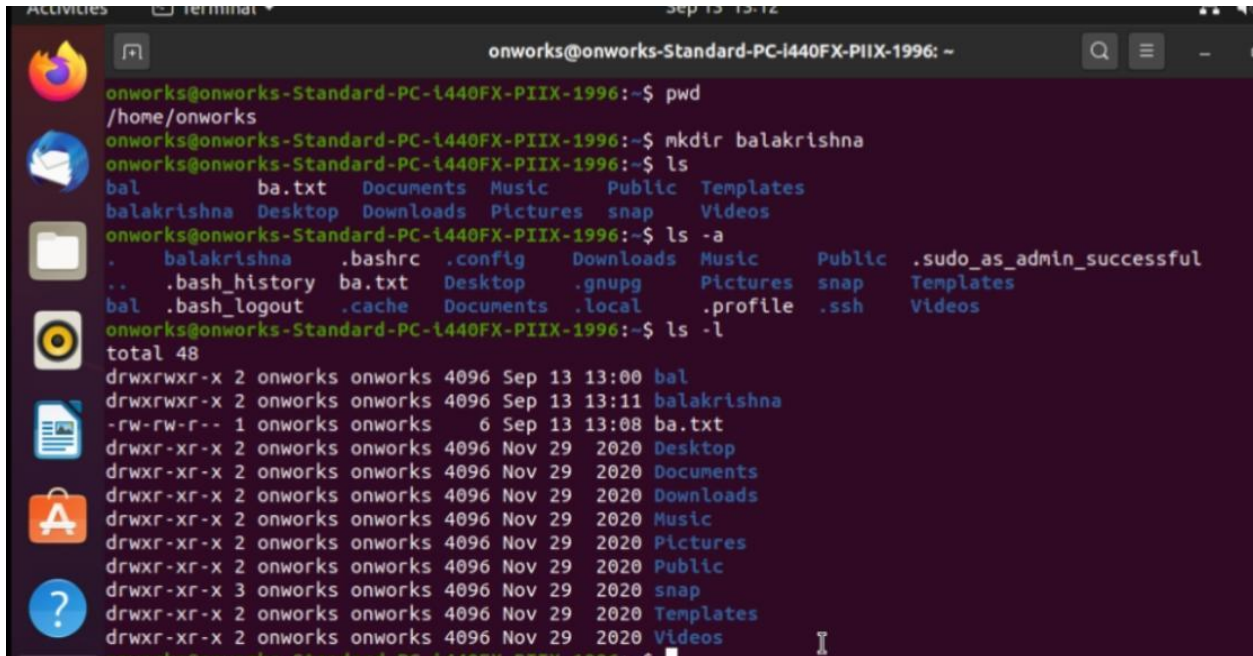
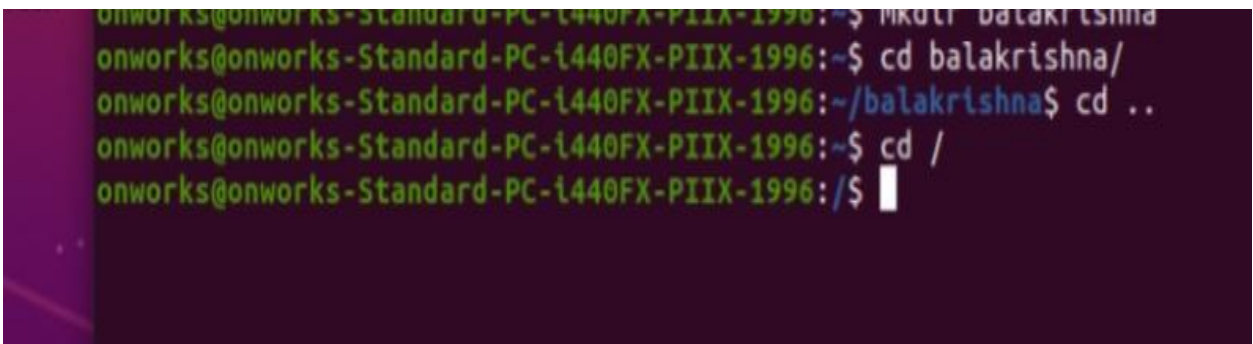


1. Pwd
2. mkdir
3. Ls
4. Ls -a
5. Ls -l

A terminal window titled 'onworks@onworks-Standard-PC-i440FX-PIIX-1996: ~' with a search icon and a hamburger menu icon in the title bar. The terminal shows the following commands and output:

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ pwd
/home/onworks
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ mkdir balakrishna
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ls
bal      ba.txt  Desktop  Downloads  Music    Public  Templates
balakrishna  Desktop  Downloads  Pictures  snap    Videos
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ls -a
.      balakrishna  .bashrc  .config  Downloads  Music    Public  .sudo_as_admin_successful
..     .bash_history  ba.txt   Desktop  .gnupg    Pictures  snap    Templates
bal    .bash_logout .cache  Documents .local    .profile .ssh    Videos
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ls -l
total 48
drwxrwxr-x 2 onworks onworks 4096 Sep 13 13:00 bal
drwxrwxr-x 2 onworks onworks 4096 Sep 13 13:11 balakrishna
-rw-rw-r-- 1 onworks onworks   6 Sep 13 13:08 ba.txt
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Desktop
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Documents
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Downloads
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Music
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Pictures
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Public
drwxr-xr-x 3 onworks onworks 4096 Nov 29 2020 snap
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Templates
drwxr-xr-x 2 onworks onworks 4096 Nov 29 2020 Videos
```

6. Cd balakrishna/
7. Pwd
8. Cd ..
9. Cd /

A terminal window showing the following commands and output:

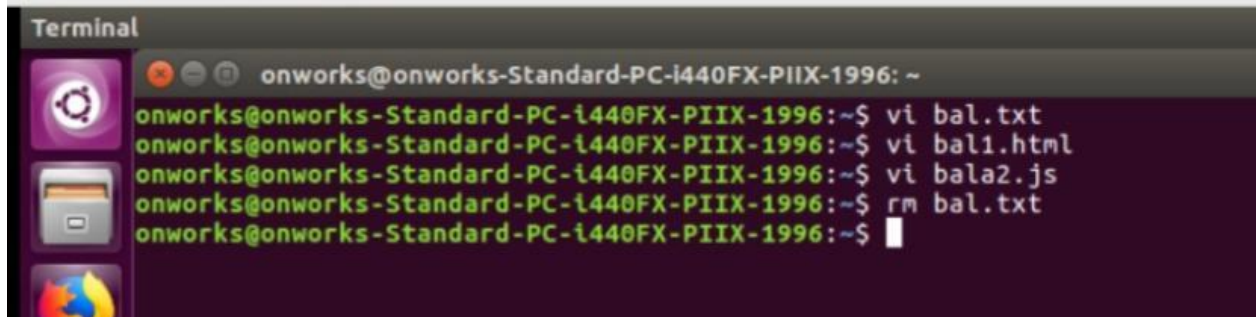
```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ mkdir balakrishna
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cd balakrishna/
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~/balakrishna$ cd ..
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cd /
onworks@onworks-Standard-PC-i440FX-PIIX-1996:/$
```

10. Vi bala.txt

Vi bal1.html

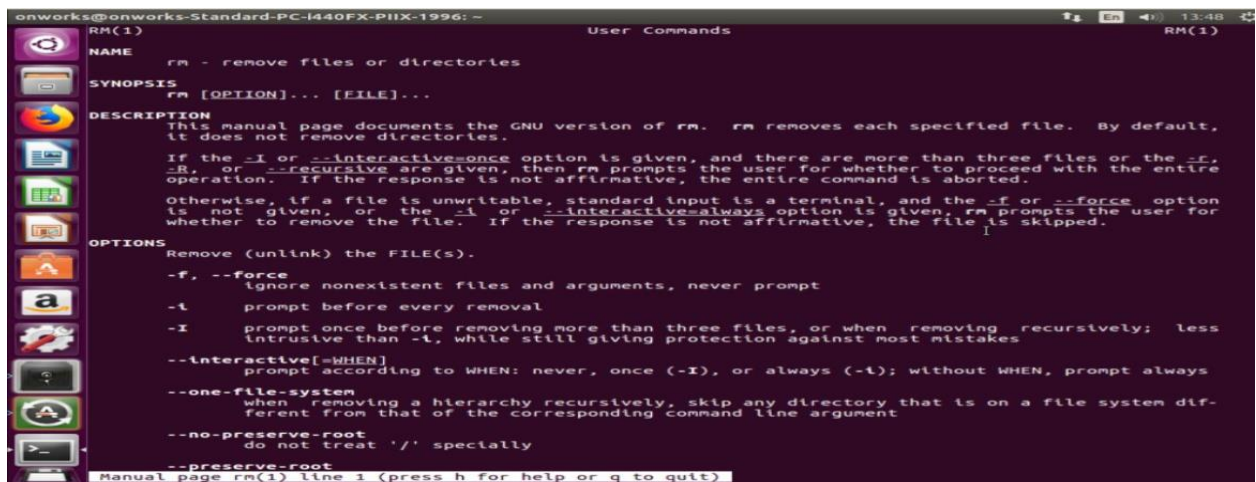
Vi bal2.js

rm bala.txt



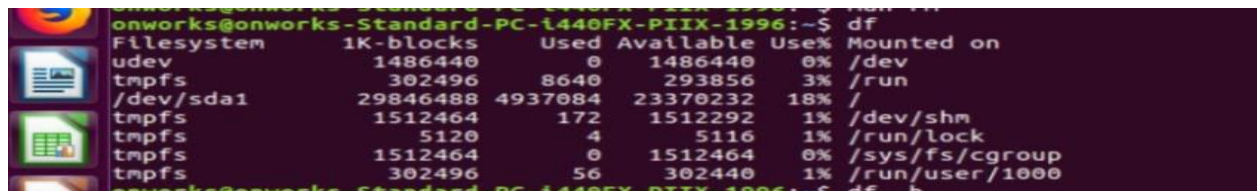
```
Terminal
onworks@onworks-Standard-PC-i440FX-PIIX-1996: ~
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ vi bal.txt
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ vi bal1.html
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ vi bala2.js
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ rm bal.txt
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

11. Man rm



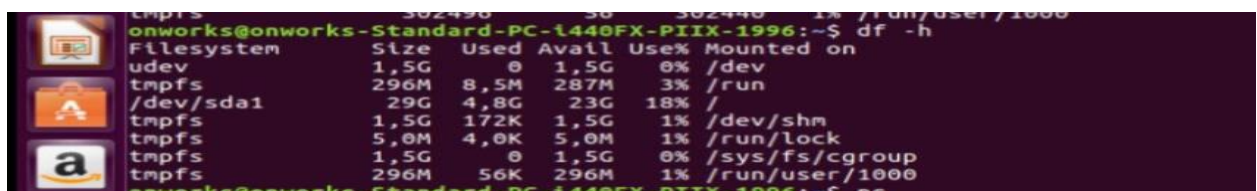
```
onworks@onworks-Standard-PC-i440FX-PIIX-1996: ~
RM(1)
NAME
rm - remove files or directories
SYNOPSIS
rm [OPTION]... [FILE]...
DESCRIPTION
This manual page documents the GNU version of rm. rm removes each specified file. By default,
it does not remove directories.
If the -I or --interactive=once option is given, and there are more than three files or the -r,
-R, or --recursive are given, then rm prompts the user for whether to proceed with the entire
operation. If the response is not affirmative, the entire command is aborted.
Otherwise, if a file is unwritable, standard input is a terminal, and the -f or --force option
is not given, or the -i or --interactive=always option is given, rm prompts the user for
whether to remove the file. If the response is not affirmative, the file is skipped.
OPTIONS
Remove (unlink) the FILE(s).
-f, --force
ignore nonexistent files and arguments, never prompt
-i
prompt before every removal
-I
prompt once before removing more than three files, or when removing recursively; less
intrusive than -i, while still giving protection against most mistakes
--interactive[=WHEN]
prompt according to WHEN: never, once (-I), or always (-i); without WHEN, prompt always
--one-file-system
when removing a hierarchy recursively, skip any directory that is on a file system dif-
ferent from that of the corresponding command line argument
--no-preserve-root
do not treat '/' specially
--preserve-root
Manual page rm(1) line 1 (press h for help or q to quit)
```

12. Df



```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev             1486440         0   1486440   0% /dev
tmpfs            302496         8640   293856   3% /run
/dev/sda1        29846488 4937084 23370232  18% /
tmpfs            1512464        172  1512292   1% /dev/shm
tmpfs             5120           4     5116   1% /run/lock
tmpfs            1512464         0  1512464   0% /sys/fs/cgroup
tmpfs            302496         56   302440   1% /run/user/1000
```

13. Df -h



```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ df -h
Filesystem      Size      Used Avail Use% Mounted on
udev            1.5G         0    1.5G   0% /dev
tmpfs            296M         8,5M   287M   3% /run
/dev/sda1        29G         4,8G   23G   18% /
tmpfs            1.5G        172K    1.5G   1% /dev/shm
tmpfs            5,0M         4,0K    5,0M   1% /run/lock
tmpfs            1.5G         0    1.5G   0% /sys/fs/cgroup
tmpfs            296M         56K    296M   1% /run/user/1000
```

14. Ps

15. Ps -a

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ps
  PID TTY          TIME CMD
 24758 pts/1        00:00:00 bash
 24864 pts/1        00:00:00 ps
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ps -a
  PID TTY          TIME CMD
 24868 pts/1        00:00:00 ps
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

16. Gedit bal1.html

17. Gedit bal1.html &

```
24868 pts/1        00:00:00 ps
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ gedit bal1.html
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ gedit bal1.html &
[1] 24932
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```



18. Kill

```
[1] 24932
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ kill 24932
bash: kill: (24932) - No such process
[1]+  Done                  gedit bal1.html
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

19. Sudo apt-get install ch

```
Reading package lists... Done
Building dependency tree
Reading state information... Done
E: Unable to locate package ch
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ sudo apt-get install -h
Usage: apt-get [options] command
       apt-get [options] install|remove pkg1 [pkg2 ...]
       apt-get [options] source pkg1 [pkg2 ...]

apt-get is a command line interface for retrieval of packages
and information about them from authenticated sources and
for installation, upgrade and removal of packages together
with their dependencies.

Most used commands:
update - Retrieve new lists of packages
upgrade - Perform an upgrade
install - Install new packages (pkg is libc6 not libc6.deb)
remove - Remove packages
purge - Remove packages and config files
autoremove - Remove automatically all unused packages
dist-upgrade - Distribution upgrade, see apt-get(8)
dselect-upgrade - Follow dselect selections
build-dep - Configure build-dependencies for source packages
clean - Erase downloaded archive files
autoclean - Erase old downloaded archive files
check - Verify that there are no broken dependencies
source - Download source archives
download - Download the binary package into the current directory
changelog - Download and display the changelog for the given package

See apt-get(8) for more information about the available commands.
Configuration options and syntax is detailed in apt.conf(5).
Information about how to configure sources can be found in sources.list(5).
Package and version choices can be expressed via apt_preferences(5).
Security details are available in apt-secure(8).

This APT has Super Cow Powers.
```


20. Free -h
21. Ls -cpu
22. Ls -usb

```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:/$ free -h
              total        used        free      shared  buff/cache   available
Mem:          2,9Gi        939Mi        919Mi        7,0Mi        1,0Gi        1,8Gi
Swap:         1,4Gi           0B         1,4Gi

onworks@onworks-Standard-PC-i440FX-PIIX-1996:/$ ls -cpu
bin  lib64  dev/  proc/  usr/  cdrom/  lost+found/  mnt/  snap/
sbin  tmp/  run/  etc/  boot/  lib32  var/  opt/
lib  root/  sys/  home/  libx32  swapfile  media/  srv/

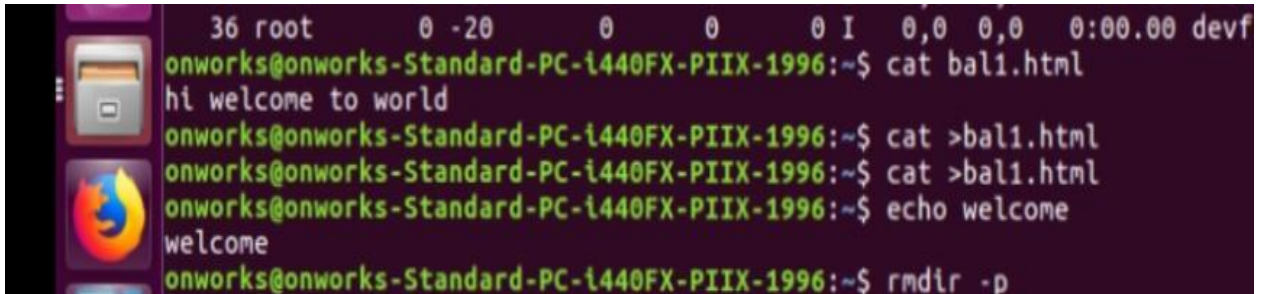
onworks@onworks-Standard-PC-i440FX-PIIX-1996:/$ ls -usb
total 1435352
    4 home          0 lib            0 run            4 boot            4 media
    0 lib32         0 lib64          0 sys            4 cdrom           4 mnt
    0 libx32        4 tmp           0 proc          1435276 swapfile         4 opt
    0 bin           4 root          12 etc           16 lost+found    4 srv
    0 sbin          0 dev           4 usr            4 var            4 snap

onworks@onworks-Standard-PC-i440FX-PIIX-1996:/$
```

23. Top

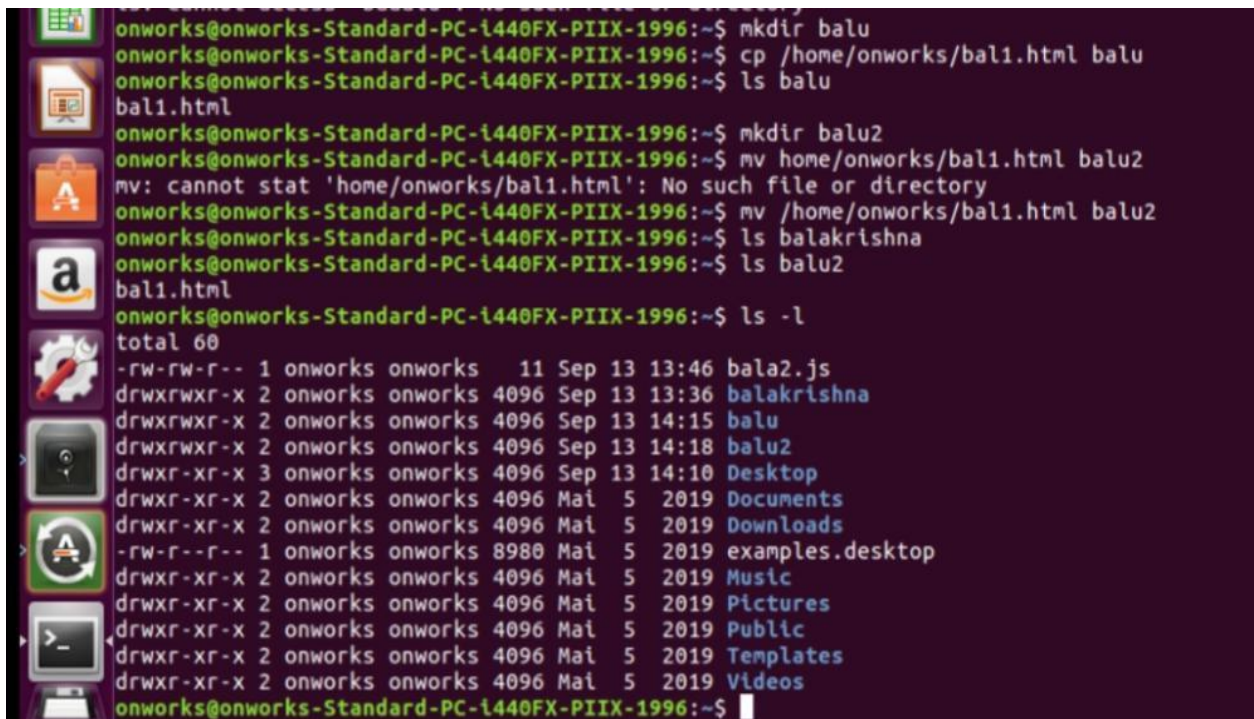
```
onworks@onworks-Standard-PC-i440FX-PIIX-1996: ~
1601 onworks 20 0 383948 187736 75772 S 1,7 6,2 1:04.39 compiz
812 root 20 0 229956 64964 29440 S 0,7 2,1 0:23.35 Xorg
25137 onworks 20 0 9628 3780 3244 R 0,3 0,1 0:00.03 top
1 root 20 0 25148 5052 3756 S 0,0 0,2 0:02.70 systemd
2 root 20 0 0 0 0 S 0,0 0,0 0:00.00 kthreadd
3 root 20 0 0 0 0 I 0,0 0,0 0:00.00 kworker/0:0
4 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 kworker/0:0H
6 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 mm_percpu_wq
7 root 20 0 0 0 0 S 0,0 0,0 0:00.08 ksoftirqd/0
8 root 20 0 0 0 0 I 0,0 0,0 0:00.26 rcu_sched
9 root 20 0 0 0 0 I 0,0 0,0 0:00.00 rcu_bh
10 root rt 0 0 0 0 S 0,0 0,0 0:00.01 migration/0
11 root rt 0 0 0 0 S 0,0 0,0 0:00.00 watchdog/0
12 root 20 0 0 0 0 S 0,0 0,0 0:00.00 cpuhp/0
13 root 20 0 0 0 0 S 0,0 0,0 0:00.00 cpuhp/1
14 root rt 0 0 0 0 S 0,0 0,0 0:00.00 watchdog/1
15 root rt 0 0 0 0 S 0,0 0,0 0:00.01 migration/1
16 root 20 0 0 0 0 S 0,0 0,0 0:00.14 ksoftirqd/1
18 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 kworker/1:0H
19 root 20 0 0 0 0 S 0,0 0,0 0:00.00 kdevtmpfs
20 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 netns
21 root 20 0 0 0 0 S 0,0 0,0 0:00.00 rcu_tasks_kthre
22 root 20 0 0 0 0 S 0,0 0,0 0:00.00 kauditd
24 root 20 0 0 0 0 S 0,0 0,0 0:00.00 khungtaskd
25 root 20 0 0 0 0 S 0,0 0,0 0:00.00 oom_reaper
26 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 writeback
27 root 20 0 0 0 0 S 0,0 0,0 0:00.00 kcompactd0
28 root 25 5 0 0 0 S 0,0 0,0 0:00.00 ksmd
29 root 39 19 0 0 0 S 0,0 0,0 0:00.00 khugepaged
30 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 crypto
31 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 kintegrityd
32 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 kblockd
33 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 ata_sff
34 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 md
35 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 edac-poller
36 root 0 -20 0 0 0 I 0,0 0,0 0:00.00 devfreq_wq
```

- 24. Cat bal1.html
- 25. Cat >bal1.html
- 26. Echo welcome



```
36 root      0 -20      0      0      0 I    0,0  0,0  0:00.00 devf
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cat bal1.html
hi welcome to world
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cat >bal1.html
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cat >bal1.html
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ echo welcome
welcome
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ rmdir -p
```

- 27. Cp /homee/onworks/bal1.html balu2
- 28. Mkdir bala3
- 29. Mv /homee/onworks/bal1.html bala3



```
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ mkdir balu
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ cp /home/onworks/bal1.html balu
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ls balu
bal1.html
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ mkdir balu2
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ mv home/onworks/bal1.html balu2
mv: cannot stat 'home/onworks/bal1.html': No such file or directory
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ mv /home/onworks/bal1.html balu2
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ls balakrishna
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ls balu2
bal1.html
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ ls -l
total 60
-rw-rw-r-- 1 onworks onworks  11 Sep 13 13:46 bala2.js
drwxrwxr-x 2 onworks onworks 4096 Sep 13 13:36 balakrishna
drwxrwxr-x 2 onworks onworks 4096 Sep 13 14:15 balu
drwxrwxr-x 2 onworks onworks 4096 Sep 13 14:18 balu2
drwxr-xr-x 3 onworks onworks 4096 Sep 13 14:10 Desktop
drwxr-xr-x 2 onworks onworks 4096 Mai  5 2019 Documents
drwxr-xr-x 2 onworks onworks 4096 Mai  5 2019 Downloads
-rw-r--r-- 1 onworks onworks 8980 Mai  5 2019 examples.desktop
drwxr-xr-x 2 onworks onworks 4096 Mai  5 2019 Music
drwxr-xr-x 2 onworks onworks 4096 Mai  5 2019 Pictures
drwxr-xr-x 2 onworks onworks 4096 Mai  5 2019 Public
drwxr-xr-x 2 onworks onworks 4096 Mai  5 2019 Templates
drwxr-xr-x 2 onworks onworks 4096 Mai  5 2019 Videos
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$
```

- 30. Lshw

```
0 sbin      0 dev      4 usr      4 var      4 snap
onworks@onworks-Standard-PC-i440FX-PIIX-1996:/$ lshw
WARNING: you should run this program as super-user.
onworks-standard-pc-i440fx-piix-1996
  description: Computer
  width: 64 bits
  capabilities: smp vsyscall32
*-core
  description: Motherboard
  physical id: 0
*-memory
  description: System memory
  physical id: 0
  size: 3GiB
*-cpu:0
  product: Common KVM processor
  vendor: Intel Corp.
  physical id: 1
  bus info: cpu@0
```