```
saurabh@LenovoLegion5: × + v
(saurabh @ LenovoLegion5) - [~/LinuxPractice]
$ ls
dir1 dir2 test1.txt test2.txt test3.sh test4.sh
-(saurabh@LenovoLegion5)-[~/LinuxPractice]
star -cvf archive.tar test1.txt test2.txt test3.sh test4.sh
test1.txt
test2.txt
test3.sh
test4.sh
(saurabh @ LenovoLegion5) - [~/LinuxPractice]
$ ls
archive.tar dirl dir2 test1.txt test2.txt test3.sh test4.sh
saurabh@LenovoLegion5)-[~/LinuxPractice]
s mv archive.tar dir2
-- (saurabh @ LenovoLegion 5) - [~/LinuxPractice]
s cd dir2
-(saurabh@LenovoLegion5)-[~/LinuxPractice/dir2]
s ls
archive tar
-(saurabh@LenovoLegion5)-[~/LinuxPractice/dir2]
tar -xvf archive.tar
test1.txt
test2.txt
test3.sh
test4.sh
(saurabh @ LenovoLegion5) - [~/LinuxPractice/dir2]
$ ls
archive.tar test1.txt test2.txt test3.sh test4.sh
(saurabh @ LenovoLegion5) - [~/LinuxPractice/dir2]
```

```
__(saurabh & LenovoLegion5) - [~/LinuxPractice/dir2]
_$ ls
archive.tar test1.txt test2.txt test3.sh test4.sh
__(saurabh@LenovoLegion5)-[~/LinuxPractice/dir2]
└─$ ll archive.tar
-rw-r--r- 1 saurabh saurabh 10240 Apr 13 11:25 archive.tar
(saurabh & LenovoLegion5) - [~/LinuxPractice/dir2]
$ gzip archive.tar
(saurabh@LenovoLegion5)-[~/LinuxPractice/dir2]
$ ll archive.tar.gz
-rw-r--r-- 1 saurabh saurabh 426 Apr 13 11:25 archive.tar.gz
-(saurabh & LenovoLegion5) - [~/LinuxPractice/dir2]
└─$ ll archive.tar
-rw-r--r- 1 saurabh saurabh 10240 Apr 13 11:25 archive.tar
-(saurabh@LenovoLegion5)-[~/LinuxPractice/dir2]
```

```
--- (saurabh @ LenovoLegion5) - [~/LinuxPractice]
L$ ls
dir1 dir2 dir3 names.txt test1.txt test2.txt test3.sh test4.sh
-(saurabh@LenovoLegion5)-[~/LinuxPractice]
s cat names.txt
Dhoni
Sachin
Virat
Anderson
Dravid
Yuvrai
McCullum
-(saurabh@LenovoLegion5)-[~/LinuxPractice]
sort > sortednames.txt
-(saurabh@LenovoLegion5)-[~/LinuxPractice]
__s cat sortednames.txt
Anderson
Dhoni
```

-(saurabh@LenovoLegion5)-[~/LinuxPractice]

Dravid McCullum Sachin Virat Yuvraj

```
-(saurabh@LenovoLegion5)-[~/LinuxPractice]
s cat names.txt sortednames.txt
Dhoni
Sachin
Virat
Anderson
Dravid
Yuvraj
McCullum
Anderson
Dhoni
Dhoni
Dravid
McCullum
Sachin
Virat
Virat
Yuvraj
-(saurabh@LenovoLegion5)-[~/LinuxPractice]
s cat names.txt sortednames.txt | sort | uniq
Anderson
Dhoni
Dravid
McCullum
Sachin
Virat
Yuvraj
-- (saurabh @LenovoLegion5) - [~/LinuxPractice]
```

```
-(saurabh@LenovoLegion5)-[~/LinuxPractice]
_$ ls
dir1 dir3 sortednames.txt test2.txt test4.sh
dir2
     names.txt test1.txt
                           test3.sh
-(saurabh@LenovoLegion5)-[~/LinuxPractice]
s ls | sort | tee sortedListOfFiles.txt
dir1
dir2
dir3
names.txt
sortedListOfFiles.txt
sortednames.txt
test1.txt
test2.txt
test3.sh
test4.sh
-(saurabh@LenovoLegion5)-[~/LinuxPractice]
_$ ls
dir1 dir3
            sortedListOfFiles.txt test1.txt test3.sh
dir2 names.txt sortednames.txt
                                     test2.txt test4.sh
-(saurabh@LenovoLegion5)-[~/LinuxPractice]
s cat sortedListOfFiles.txt
dir1
dir2
dir3
names.txt
sortedListOfFiles.txt
sortednames.txt
test1.txt
test2.txt
test3.sh
test4.sh
—(saurabh@LenovoLegion5)-[~/LinuxPractice]
```

```
saurabh@LenovoLegion5: ×
-(saurabh & LenovoLegion5) - [~/LinuxPractice]
$ 15
test1.txt test2.txt
__(saurabh@LenovoLegion5)-[~/LinuxPractice]
_s pwd
/home/saurabh/LinuxPractice
(saurabh @ LenovoLegion5) - [~/LinuxPractice]
$ cd /
-(saurabh @LenovoLegion5)-[/]
find /home/saurabh/LinuxPractice -name test1.txt
/home/saurabh/LinuxPractice/test1.txt
__(saurabh & LenovoLegion5)-[/]
find /home/saurabh/LinuxPractice -name '*.txt'
/home/saurabh/LinuxPractice/test2.txt
/home/saurabh/LinuxPractice/test1.txt
__(saurabh@LenovoLegion5)-[/]
```

```
saurabh@LenovoLegion5: × + ~
(saurabh & LenovoLegion5) - [~/LinuxPractice]
$ ls
test1.txt test2.txt
(saurabh & LenovoLegion5) - [~/LinuxPractice]
$ vi test1.txt
(saurabh & LenovoLegion5) - [~/LinuxPractice]
$ cat test1.txt
Apple Inc. is an American multinational technology company headquartered in Cupertino
, California. Apple is the world's largest technology company by revenue, with US$394
.3 billion in 2022 revenue.[6] As of March 2023, Apple is the world's biggest company
by market capitalization.
saurabh & LenovoLegion5) - [~/LinuxPractice]
$ sed 's/Apple/Orange/g' test1.txt
Orange Inc. is an American multinational technology company headquartered in Cupertin
o, California. Orange is the world's largest technology company by revenue, with US$3
94.3 billion in 2022 revenue.[6] As of March 2023, Orange is the world's biggest comp
any by market capitalization.
```

```
saurabh@LenovoLegion5: × + v
Linux
unknown
GNU/Linux
(saurabh @ LenovoLegion5) - [~/LinuxPractice]
$ uname -a
Linux LenovoLegion5 5.10.16.3-microsoft-standard-WSL2 #1 SMP Fri Apr 2 22:23:49 UTC 2
021 x86_64 GNU/Linux
__(saurabh@LenovoLegion5)-[~/LinuxPractice]
```

```
saurabh@LenovoLegion5: ×
-(saurabh & LenovoLegion5) - [~/LinuxPractice]
s lsb release
No LSB modules are available.
-(saurabh@LenovoLegion5)-[~/LinuxPractice]
sudo apt-get install lsb-release
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
lsb-release is already the newest version (12.0-1).
lsb-release set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
__(saurabh@LenovoLegion5)-[~/LinuxPractice]
$ lsb_release -a
No LSB modules are available.
Distributor ID: Kali
Description: Kali GNU/Linux Rolling
Release: 2023.1
Codename: kali-rolling
-(saurabh@LenovoLegion5)-[~/LinuxPractice]
```

```
saurabh@LenovoLegion5: ×
---(saurabh@LenovoLegion5)-[~/LinuxPractice]
/home/saurabh/LinuxPractice
-(saurabh@LenovoLegion5)-[~/LinuxPractice]
$ du /home/saurabh/LinuxPractice
4 /home/saurabh/LinuxPractice/dir1
12
       /home/saurabh/LinuxPractice
-(saurabh@LenovoLegion5)-[~/LinuxPractice]
s du -h /home/saurabh/LinuxPractice
4.0K /home/saurabh/LinuxPractice/dir1
12K
       /home/saurabh/LinuxPractice
 -(saurabh@LenovoLegion5)-[~/LinuxPractice]
```

```
saurabh@LenovoLegion5: X
   (saurabh@LenovoLegion5)-[~]
s man lsblk
---(saurabh@LenovoLegion5)-[~]
s lsblk
NAME MAJ:MIN RM
                  SIZE
                      RO TYPE MOUNTPOINTS
sda
       8:0
                 256G
                        0 disk
sdb
       8:16
                 256G
                        0 disk
sdc
       8:32
                 256G
                        0 disk
sdd
                 256G
                        0 disk /
       8:48
   -(saurabh@LenovoLegion5)-[~]

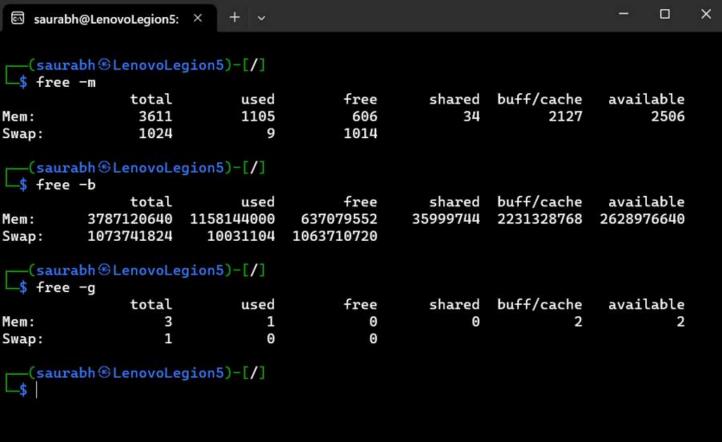
─$ lsblk -b
NAME MAJ:MIN RM
                         SIZE RO TYPE MOUNTPOINTS
                               0 disk
sda
       8:0
                274877906944
sdb
       8:16
                274877906944
                               0 disk
                               0 disk
sdc
       8:32
                274877906944
sdd
       8:48
                274877906944
                               0 disk /
   -(saurabh & LenovoLegion5) - [~]
```

```
×
saurabh@LenovoLegion5: ×
__(saurabh & LenovoLegion5) - [~/LinuxPractice]
_$ ls
dir1 test1.txt test2.txt test3.sh test4.sh
__(saurabh & LenovoLegion5) - [~/LinuxPractice]
scat test2.txt
BankManager
             10000
Accountant
             8000
Employee
            8000
Clerk
             7000
-(saurabh & LenovoLegion5) - [~/LinuxPractice]
awk '{print $1}' test2.txt
BankManager
Accountant
Employee
Clerk
___(saurabh@LenovoLegion5)-[~/LinuxPractice]
```

```
saurabh@LenovoLegion5: ×
-(saurabh@LenovoLegion5)-[/]
__$ uptime
11:37:05 up 4:25, 0 user, load average: 0.02, 0.09, 0.10
__(saurabh@LenovoLegion5)-[/]

↓ uptime -s

2023-04-13 07:11:55
-(saurabh@LenovoLegion5)-[/]
└─$ uptime -p
up 4 hours, 25 minutes
-(saurabh@LenovoLegion5)-[/]
```



```
__(saurabh & LenovoLegion5)-[/]
∟$ ls
bin dev home lib lib64 lost+found mnt proc run srv
                                                                tmp
                                                                     var
boot etc init lib32 libx32 media opt root sbin sys
                                                                usr
-(saurabh@LenovoLegion5)-[/]
s cd home
-(saurabh @ LenovoLegion5) - [/home]
s ls
saurabh
__(saurabh @ LenovoLegion 5) - [/home]
sudo adduser infobell
Adding user 'infobell' ...
Adding new group 'infobell' (1001) ...
Adding new user 'infobell' (1001) with group 'infobell (1001)' ...
Creating home directory '/home/infobell' ...
Copying files from '/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for infobell
Enter the new value, or press ENTER for the default
       Full Name []:
       Room Number []:
       Work Phone []:
       Home Phone []:
       Other []:
Is the information correct? [Y/n] Y
Adding new user 'infobell' to supplemental / extra groups 'users' ...
Adding user 'infobell' to group 'users' ...
__(saurabh@LenovoLegion5)-[/home]
∟$ ls
infobell saurabh
```

\_\_(saurabh@LenovoLegion5)-[/home]

```
s cd LinuxPractice/
-(saurabh@LenovoLegion5)-[~/LinuxPractice]
s cd dir
dir1/ dir2/ dir3/
__(saurabh@LenovoLegion5)-[~/LinuxPractice]
s cd dir1
-(saurabh@LenovoLegion5)-[~/LinuxPractice/dir1]
s cd dir2/
-(saurabh@LenovoLegion5)-[~/LinuxPractice/dir1/dir2]
s cd dir3/
__(saurabh@LenovoLegion5)-[~/LinuxPractice/dir1/dir2/dir3]
$ 15
file.txt
__(saurabh & LenovoLegion5) - [~/LinuxPractice/dir1/dir2/dir3]
s cat file.txt
This file is present in /home/saurabh/LinuxPractice/dir1/dir2/dir3
__(saurabh @ LenovoLegion5) - [~/LinuxPractice/dir1/dir2/dir3]
s cat file.txt
This file is present in /home/saurabh/LinuxPractice/dir1/dir2/dir3
If i make changes here then it will reflect into the file.txt which is prese
nt in another folder
__(saurabh@Lenovolegion5)-[~/LinuxPractice/dir1/dir2/dir3]
s echo Softlink is like a pointer. > file.txt
__(saurabh@LenovoLegion5)-[~/LinuxPractice/dir1/dir2/dir3]
scat file.txt
Softlink is like a pointer.
Any changes make into this softlink file will reflect into the original file
.txt which is located inside another folder
___(saurabh@LenovoLegion5)-[~/LinuxPractice/dir1/dir2/dir3]
```

```
_s cat softlink
This file is present in /home/saurabh/LinuxPractice/dir1/dir2/dir3
-(saurabh & LenovoLegion5) - [~/Saurabh]
s cat If i make changes here then it will reflect into the file.txt which
is present in another folder >> softlink
cat: If: No such file or directory
cat: i: No such file or directory
cat: make: No such file or directory
cat: changes: No such file or directory
cat: here: No such file or directory
cat: then: No such file or directory
cat: it: No such file or directory
cat: will: No such file or directory
cat: reflect: No such file or directory
cat: into: No such file or directory
cat: the: No such file or directory
cat: file.txt: No such file or directory
cat: which: No such file or directory
cat: is: No such file or directory
cat: present: No such file or directory
cat: in: No such file or directory
cat: another: No such file or directory
cat: folder: No such file or directory
—(saurabh & LenovoLegion5) - [~/Saurabh]
secho If i make changes here then it will reflect into the file.txt which
 is present in another folder >> softlink
—(saurabh ® LenovoLegion5) - [~/Saurabh]
s cat softlink
Softlink is like a pointer.
---(saurabh & LenovoLegion5) - [~/Saurabh]
s echo Any changes make into this softlink file will reflect into the orig
inal file.txt which is located inside another folder >> softlink
  -(saurabh&LenovoLegion5)-[~/Saurabh]
```

```
—(saurabh⊕LenovoLegion5)-[~/Saurabh]
__(saurabh & LenovoLegion5) - [~/LinuxPractice/dir1/dir2/dir3]
                                                                                 _$ ls
_$ ls
                                                                                softlink
file2.txt file.txt
                                                                                 -(saurabh@LenovoLegion5)-[~/Saurabh]
—(saurabh @ LenovoLegion5) - [~/LinuxPractice/dir1/dir2/dir3]
                                                                                 S ls −l
\mathrel{ullet} \$ echo This file is used for demonstrating hardlink example > file2.txt
                                                                                total 0
                                                                                lrwxrwxrwx 1 saurabh saurabh 51 Apr 13 13:39 softlink -> /home/saurabh/Linux
—(saurabh @ LenovoLegion5) - [~/LinuxPractice/dir1/dir2/dir3]
                                                                                Practice/dir1/dir2/dir3/file.txt
_$ cat file2.txt
This file is used for demonstrating hardlink example
                                                                                 ---(saurabh@LenovoLegion5)-[~/Saurabh]
                                                                                 In /home/saurabh/LinuxPractice/dir1/dir2/dir3/file2.txt hardlink
___(saurabh@LenovoLegion5)-[~/LinuxPractice/dir1/dir2/dir3]
_$ pwd
                                                                                 ---(saurabh & LenovoLegion5) - [~/Saurabh]
/home/saurabh/LinuxPractice/dir1/dir2/dir3
                                                                                 s ls -ltr
                                                                                total 4
__(saurabh & LenovoLegion5) - [~/LinuxPractice/dir1/dir2/dir3]
                                                                                lrwxrwxrwx 1 saurabh saurabh 51 Apr 13 13:39 softlink -> /home/saurabh/Linux
secho "This is the safest way to create replica of a file ." >> file2.txt
                                                                                Practice/dir1/dir2/dir3/file.txt
                                                                                -rw-r--r-- 2 saurabh saurabh 53 Apr 13 13:48 hardlink
___(saurabh & LenovoLegion5) - [~/LinuxPractice/dir1/dir2/dir3]
                                                                                 -(saurabh@LenovoLegion5)-[~/Saurabh]
s cat file2.txt
                                                                                 scat hardlink
This file is used for demonstrating hardlink example
                                                                                This file is used for demonstrating hardlink example
This is the safest way to create replica of a file .
                                                                                  -(saurabh@LenovoLegion5)-[~/Saurabh]
If I delet file from the original folder still this replica will not get aff
                                                                                 _s cat hardlink
ected
                                                                                This file is used for demonstrating hardlink example
(saurabh & LenovoLegion5) - [~/LinuxPractice/dir1/dir2/dir3]
                                                                                This is the safest way to create replica of a file .

─$ rm file2.txt

                                                                                 -(saurabh & LenovoLegion5) - [~/Saurabh]
—(saurabh & LenovoLegion5) - [~/LinuxPractice/dir1/dir2/dir3]
                                                                                 🗕 echo If I delet file from the original folder still this replica will no
                                                                                t get affected >> hardlink
                                                                                  -(saurabh@LenovoLegion5)-[~/Saurabh]
                                                                                __s cat hardlink
                                                                                This file is used for demonstrating hardlink example
                                                                                This is the safest way to create replica of a file .
                                                                                If I delet file from the original folder still this replica will not get aff
                                                                                ected
```