

```
Activities Terminal Apr 13 11:39 shruti@LINUX: ~

loop10 7:10 0 48160768 1 loop /snap/snap-store/638
loop11 7:11 0 52031488 1 loop /snap/snapd/17883
loop13 7:13 0 311296 1 loop /snap/snapd-desktop-integration/49
loop14 7:14 0 10092544 1 loop /snap/htop/3417
loop15 7:15 0 52260864 1 loop /snap/snapd/18596
loop16 7:16 0 66392064 1 loop /snap/core20/1852
loop17 7:17 0 438272 1 loop /snap/snapd-desktop-integration/57
loop18 7:18 0 10113024 1 loop /snap/htop/3654
loop19 7:19 0 366673920 1 loop /snap/gnome-3-38-2004/137
sda 8:0 0 55032971264 0 disk
├─sda1 8:1 0 1048576 0 part
├─sda2 8:2 0 537919488 0 part /boot/efi
├─sda3 8:3 0 54492397568 0 part /var/snap/firefox/common/host-hunspell
└─
sr0 11:0 1 1073741312 0 rom
shruti@LINUX:~$ tar cvf mynewtar.tar /home/shruti/shruti
tar: Removing leading '/' from member names
/home/shruti/shruti/
/home/shruti/shruti/posneg.sh
/home/shruti/shruti/fact.sh
/home/shruti/shruti/fib.sh
/home/shruti/shruti/reverse.sh
shruti@LINUX:~$ ls
1.txt case.sh forloop.sh home 'myfile.txt M-A' newnew.txt Public shru.txt try.sh
2.txt Desktop hello leap.sh mynewtar.tar new.sh revpattern.sh snap until.sh
3.txt Documents 'hello M-A' minnumber.sh mytar.tar new.txt sedcommand.sh steps.sh verynew.txt
amar Downloads hello.txt Music my.txt pattern.sh shru.sh Templates Videos
AOCircle.sh final.txt hi.txt myfile.txt new Pictures shruti test.txt while.sh
shruti@LINUX:~$ tar -tvf mynewtar.tar /home/shruti/shruti
tar: /home/shruti/shruti: Not found in archive
tar: Exiting with failure status due to previous errors
shruti@LINUX:~$ tar -tvf mynewtar.tar
drwxrwxr-x shruti/shruti 0 2023-04-12 16:40 home/shruti/shruti/
-rwxrwxrwx shruti/shruti 122 2022-12-29 12:59 home/shruti/shruti/posneg.sh
-rwxrwxrwx shruti/shruti 76 2022-12-29 18:37 home/shruti/shruti/fact.sh
-rwxrwxrwx shruti/shruti 127 2022-12-29 18:58 home/shruti/shruti/fib.sh
-rwxrwxrwx shruti/shruti 49 2022-12-29 15:33 home/shruti/shruti/reverse.sh
shruti@LINUX:~$
```

ActivitiesTerminalApr 13 11:37shruti@LINUX: ~

```
loop16 7:16 0 63.3M 1 loop /snap/core20/1852
loop17 7:17 0 428K 1 loop /snap/snapd-desktop-integration/57
loop18 7:18 0 9.6M 1 loop /snap/htop/3654
loop19 7:19 0 349.7M 1 loop /snap/gnome-3-38-2004/137
sda 8:0 0 51.3G 0 disk
├─sda1 8:1 0 1M 0 part
├─sda2 8:2 0 513M 0 part /boot/efi
└─sda3 8:3 0 50.8G 0 part /var/snap/firefox/common/host-hunspell
/
sr0 11:0 1 1024M 0 rom
shruti@LINUX:~$ lsblk -b
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
loop0 7:0 0 4096 1 loop /snap/bare/5
loop1 7:1 0 76537856 1 loop /snap/core22/607
loop2 7:2 0 76451840 1 loop /snap/core22/469
loop3 7:3 0 66347008 1 loop /snap/core20/1778
loop4 7:4 0 171225088 1 loop /snap/firefox/1635
loop5 7:5 0 482750464 1 loop /snap/gnome-42-2204/68
loop6 7:6 0 250015744 1 loop /snap/firefox/2211
loop7 7:7 0 363151360 1 loop /snap/gnome-3-38-2004/119
loop8 7:8 0 96141312 1 loop /snap/gtk-common-themes/1535
loop9 7:9 0 48091136 1 loop /snap/snap-store/582
loop10 7:10 0 48160768 1 loop /snap/snap-store/638
loop11 7:11 0 52031488 1 loop /snap/snapd/17883
loop13 7:13 0 311296 1 loop /snap/snapd-desktop-integration/49
loop14 7:14 0 10092544 1 loop /snap/htop/3417
loop15 7:15 0 52260864 1 loop /snap/snapd/18596
loop16 7:16 0 66392064 1 loop /snap/core20/1852
loop17 7:17 0 438272 1 loop /snap/snapd-desktop-integration/57
loop18 7:18 0 10113024 1 loop /snap/htop/3654
loop19 7:19 0 366673920 1 loop /snap/gnome-3-38-2004/137
sda 8:0 0 55032971264 0 disk
├─sda1 8:1 0 1048576 0 part
├─sda2 8:2 0 537919488 0 part /boot/efi
└─sda3 8:3 0 54492397568 0 part /var/snap/firefox/common/host-hunspell
/
sr0 11:0 1 1073741312 0 rom
shruti@LINUX:~$
```

```
Activities Terminal Apr 13 11:37 shruti@LINUX: ~  
loop17 7:17 0 428K 1 loop /snap/snapd-desktop-integration/57  
loop18 7:18 0 9.6M 1 loop /snap/htop/3654  
loop19 7:19 0 349.7M 1 loop /snap/gnome-3-38-2004/137  
sda 8:0 0 51.3G 0 disk  
├─sda1 8:1 0 1M 0 part  
├─sda2 8:2 0 513M 0 part /boot/efi  
└─sda3 8:3 0 50.8G 0 part /var/snap/firefox/common/host-hunspell  
/br/>sr0 11:0 1 1024M 0 rom  
shruti@LINUX:~$ lsblk -a  
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS  
loop0 7:0 0 4K 1 loop /snap/bare/5  
loop1 7:1 0 73M 1 loop /snap/core22/607  
loop2 7:2 0 72.9M 1 loop /snap/core22/469  
loop3 7:3 0 63.3M 1 loop /snap/core20/1778  
loop4 7:4 0 163.3M 1 loop /snap/firefox/1635  
loop5 7:5 0 460.4M 1 loop /snap/gnome-42-2204/68  
loop6 7:6 0 238.4M 1 loop /snap/firefox/2211  
loop7 7:7 0 346.3M 1 loop /snap/gnome-3-38-2004/119  
loop8 7:8 0 91.7M 1 loop /snap/gtk-common-themes/1535  
loop9 7:9 0 45.9M 1 loop /snap/snap-store/582  
loop10 7:10 0 45.9M 1 loop /snap/snap-store/638  
loop11 7:11 0 49.6M 1 loop /snap/snapd/17883  
loop12 7:12 0 0B 1 loop  
loop13 7:13 0 304K 1 loop /snap/snapd-desktop-integration/49  
loop14 7:14 0 9.6M 1 loop /snap/htop/3417  
loop15 7:15 0 49.8M 1 loop /snap/snapd/18596  
loop16 7:16 0 63.3M 1 loop /snap/core20/1852  
loop17 7:17 0 428K 1 loop /snap/snapd-desktop-integration/57  
loop18 7:18 0 9.6M 1 loop /snap/htop/3654  
loop19 7:19 0 349.7M 1 loop /snap/gnome-3-38-2004/137  
sda 8:0 0 51.3G 0 disk  
├─sda1 8:1 0 1M 0 part  
├─sda2 8:2 0 513M 0 part /boot/efi  
└─sda3 8:3 0 50.8G 0 part /var/snap/firefox/common/host-hunspell  
/  
sr0 11:0 1 1024M 0 rom  
shruti@LINUX:~$
```

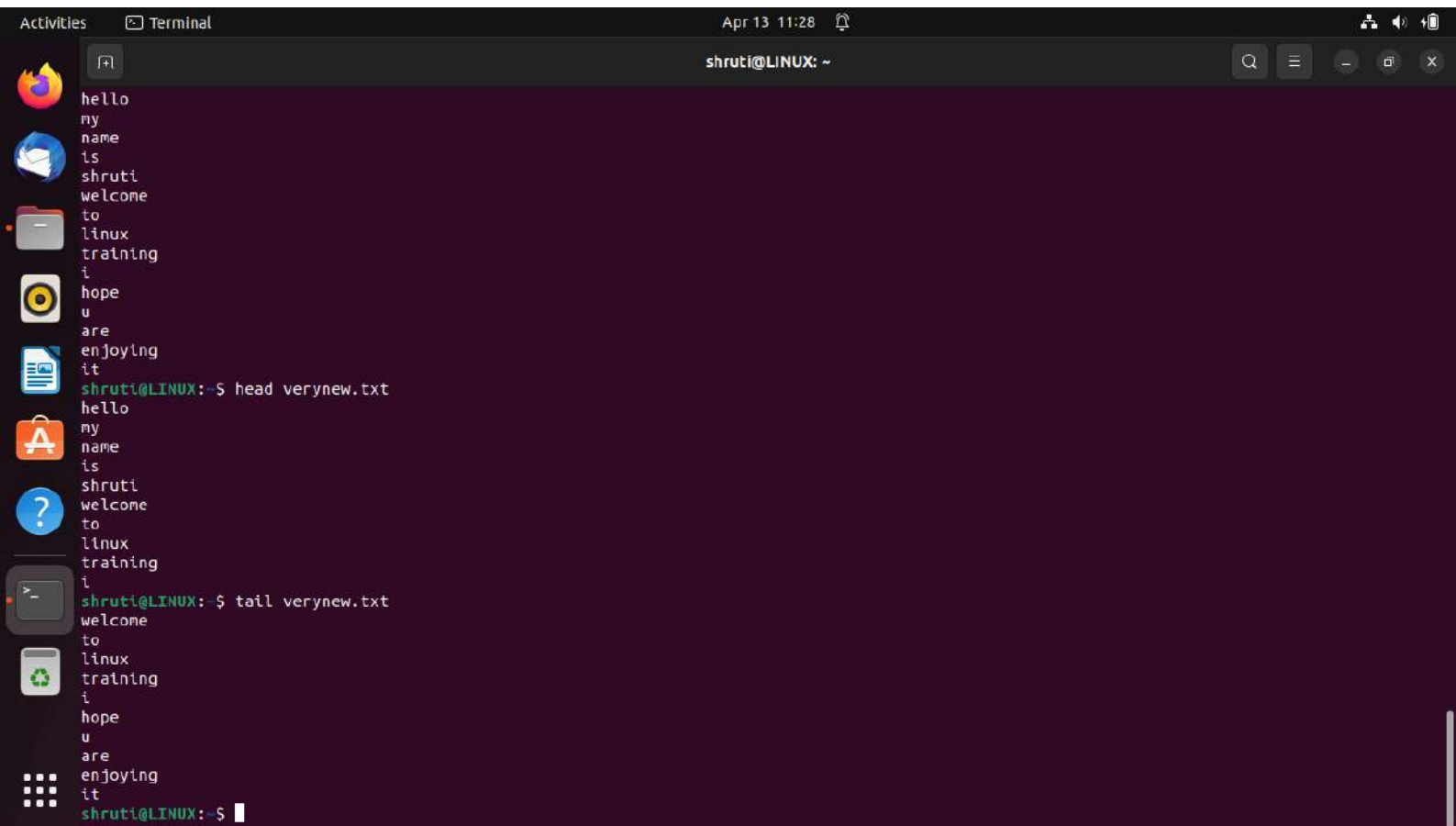
```
Activities Terminal Apr 13 11:37 shruti@LINUX: ~  
4 ./local/share/icc  
76 ./local/share/gvfs-metadata  
4 ./local/share/applications  
768 ./local/share  
764 ./local  
12 ./gnupg  
20 ./home/shruti/shruti  
24 ./home/shruti  
28 ./home  
384132 .  
shruti@LINUX:~$ lsblk  
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS  
loop0 7:0 0 4K 1 loop /snap/bare/5  
loop1 7:1 0 73M 1 loop /snap/core22/607  
loop2 7:2 0 72.9M 1 loop /snap/core22/469  
loop3 7:3 0 63.3M 1 loop /snap/core20/1778  
loop4 7:4 0 163.3M 1 loop /snap/firefox/1635  
loop5 7:5 0 460.4M 1 loop /snap/gnome-42-2204/68  
loop6 7:6 0 238.4M 1 loop /snap/firefox/2211  
loop7 7:7 0 346.3M 1 loop /snap/gnome-3-38-2004/119  
loop8 7:8 0 91.7M 1 loop /snap/gtk-common-themes/1535  
loop9 7:9 0 45.9M 1 loop /snap/snap-store/582  
loop10 7:10 0 45.9M 1 loop /snap/snap-store/638  
loop11 7:11 0 49.6M 1 loop /snap/snapd/17883  
loop13 7:13 0 304K 1 loop /snap/snapd-desktop-integration/49  
loop14 7:14 0 9.6M 1 loop /snap/htop/3417  
loop15 7:15 0 49.8M 1 loop /snap/snapd/18596  
loop16 7:16 0 63.3M 1 loop /snap/core20/1852  
loop17 7:17 0 428K 1 loop /snap/snapd-desktop-integration/57  
loop18 7:18 0 9.6M 1 loop /snap/htop/3654  
loop19 7:19 0 349.7M 1 loop /snap/gnome-3-38-2004/137  
sda 8:0 0 51.3G 0 disk  
├─sda1 8:1 0 1M 0 part  
├─sda2 8:2 0 513M 0 part /boot/efi  
└─sda3 8:3 0 50.8G 0 part /var/snap/firefox/common/host-hunspell  
/br/>sr0 11:0 1 1024M 0 rom  
shruti@LINUX:~$
```



```
Activities Terminal Apr 13 11:36 shruti@LINUX: ~
nt
hello
shruti@LINUX:~$ cat sedcommand.txt | awk '{print $2}'
hi
bye
hi
hello
bye
shruti@LINUX:~$ cat sedcommand.txt | awk '{print $NF}'
hi
bye
hi
hello
bye
shruti@LINUX:~$ cat sedcommand.txt
hello hi
bye bye
bye hi
hi hello
hello bye
shruti@LINUX:~$ awk 'NR==2, NR==4 {print NR, $0}' sedcommand.txt
awk: 1: unexpected character '8'
shruti@LINUX:~$ awk 'NR==2, NR==4 {print NR, $0}' sedcommand.txt
2 bye bye
3 bye hi
4 hi hello
shruti@LINUX:~$ awk 'END {print NR}' sedcommand.txt
5
shruti@LINUX:~$ du
4      ./amar
4      ./mozilla/extensions
8      ./mozilla
20     ./shruti
4      ./ssh
8      ./snap/firefox/1635/.config/fontconfig
4      ./snap/firefox/1635/.config/gtk-3.0
4      ./snap/firefox/1635/.config/gtk-2.0
4      ./snap/firefox/1635/.config/dconf
4      ./snap/firefox/1635/.config/ibus
```

```
Activities Terminal Apr 13 11:34 shruti@LINUX: ~
General help using GNU software: <https://www.gnu.org/gethelp/>.
shruti@LINUX:~$ sed 's/bye/hi/' sedcommand.txt
hello hi
hi bye
hi hi
hi hello
hello hi
shruti@LINUX:~$ sed 's/bye/hi/3' sedcommand.txt
hello hi
bye bye
bye hi
hi hello
hello bye
shruti@LINUX:~$ sed 's/bye/hi/g' sedcommand.txt
hello hi
hi hi
hi hi
hi hello
hello hi
shruti@LINUX:~$ cat sedcommand.txt | awk '{print $1}'
hello
bye
bye
hi
hello
shruti@LINUX:~$ cat sedcommand.txt | awk '{print $2}'
hi
bye
hi
hello
bye
shruti@LINUX:~$ cat sedcommand.txt | awk '{print $NF}'
hi
bye
hi
hello
bye
shruti@LINUX:~$
```

```
Activities Terminal Apr 13 11:31 shruti@LINUX: ~  
  
consider files as separate rather than as a single,  
continuous long stream.  
--sandbox operate in sandbox mode (disable e/r/w commands).  
-u, --unbuffered load minimal amounts of data from the input files and flush  
the output buffers more often  
-z, --null-data separate lines by NUL characters  
--help display this help and exit  
--version output version information and exit  
  
If no -e, --expression, -f, or --file option is given, then the first  
non-option argument is taken as the sed script to interpret. All  
remaining arguments are names of input files; if no input files are  
specified, then the standard input is read.  
  
GNU sed home page: <https://www.gnu.org/software/sed/>.  
General help using GNU software: <https://www.gnu.org/gethelp/>.  
shruti@LINUX:~$ sed 's/bye/hi/' sedcommand.txt  
hello hi  
hi bye  
hi hi  
hi hello  
hello hi  
shruti@LINUX:~$ sed 's/bye/hi/3' sedcommand.txt  
hello hi  
bye bye  
bye hi  
hi hello  
hello bye  
shruti@LINUX:~$ sed 's/bye/hi/g' sedcommand.txt  
hello hi  
hi hi  
hi hi  
hi hello  
hello hi  
shruti@LINUX:~$
```




```

final.txt:1: this is new
new.txt:1: this is new
shruti@LINUX:~$ ls
1.txt      case.sh    forloop.sh  home        'myfile.txt M-A'  new.sh      revpattern.sh  steps.sh    verynew.txt
2.txt      Desktop    hello       leap.sh     mytar.tar        new.txt     shru.sh        Templates  Videos
3.txt      Documents  'hello M-A' minnumber.sh my.txt          pattern.sh  shru.txt       test.txt    while.sh
amar       Downloads  hello.txt   Music       new             Pictures    shru.txt       try.sh      until.sh
AOCircle.sh final.txt  hi.txt      myfile.txt  newnew.txt      Public     snap

shruti@LINUX:~$ chmod +x new.txt
shruti@LINUX:~$ chmod -rw shru.txt
shruti@LINUX:~$ cat shru.txt
cat: shru.txt: Permission denied
shruti@LINUX:~$ ls -l
total 184
-rw-rw-r-- 1 shruti shruti 10 Dec 30 11:54 1.txt
-rw-rw-r-- 1 shruti shruti  2 Dec 30 09:12 2.txt
-rw-rw-r-- 1 shruti shruti  4 Dec 30 09:13 3.txt
drwxrwxr-x 2 shruti shruti 4096 Dec 30 09:53 amar
-rwxrwxrwx 1 shruti shruti  60 Dec 29 18:14 AOCircle.sh
-rwxrwxrwx 1 shruti shruti 110 Dec 29 16:06 case.sh
drwxr-xr-x 4 shruti shruti 4096 Apr 12 16:58 Desktop
drwxr-xr-x 2 shruti shruti 4096 Dec 27 13:56 Documents
drwxr-xr-x 2 shruti shruti 4096 Apr 12 17:01 Downloads
-rw-rw-r-- 1 shruti shruti 107 Apr 13 11:20 final.txt
-rwxrwxrwx 1 shruti shruti  73 Dec 29 15:30 forloop.sh
-rw-rw-r-- 1 shruti shruti  14 Apr 12 16:52 hello
-rw-rw-r-- 1 shruti shruti  50 Apr 12 16:55 'hello M-A'
-rw-rw-r-- 1 shruti shruti  67 Apr 13 11:19 hello.txt
-rw-rw-r-- 1 shruti shruti  15 Apr 13 11:18 hi.txt
drwxrwxr-x 3 shruti shruti 4096 Apr 12 16:44 home
-rwxrwxrwx 1 shruti shruti 129 Dec 29 13:16 leap.sh
-rwxrwxrwx 1 shruti shruti 152 Dec 29 12:50 minnumber.sh
drwxr-xr-x 2 shruti shruti 4096 Dec 27 13:56 Music
-rw-rw-r-- 1 shruti shruti   0 Apr 12 16:48 myfile.txt
-rw-rw-r-- 1 shruti shruti  24 Apr 12 16:47 'myfile.txt M-A'
-rw-rw-r-- 1 shruti shruti 10240 Apr 12 16:42 mytar.tar
-rw-rw-r-- 1 shruti shruti  13 Dec 30 09:08 my.txt
drwxrwxr-x 2 shruti shruti 4096 Apr 13 11:15 new

```

Activities Terminal Apr 13 11:25 shruti@LINUX: ~

```
shruti@LINUX:~$  
shruti@LINUX:~$  
shruti@LINUX:~$  
shruti@LINUX:~$  
shruti@LINUX:~$  
shruti@LINUX:~$ cat final.txt  
this is new  
bye bye 2022  
hi from shruti  
hello from shruti  
welcome to day2 training of linux  
hi from shruti  
shruti@LINUX:~$ cat shru.txt  
this is new  
bye bye 2022  
shruti@LINUX:~$ cat new.txt  
this is new  
bye bye 2022  
bye bye 2022  
shruti@LINUX:~$ grep "bye" shru.txt new.txt final.txt  
shru.txt:bye bye 2022  
new.txt:bye bye 2022  
new.txt:bye bye 2022  
final.txt:bye bye 2022  
shruti@LINUX:~$ grep -h "bye" shru.txt final.txt new.txt  
bye bye 2022  
bye bye 2022  
bye bye 2022  
bye bye 2022  
shruti@LINUX:~$ grep -h "this" shru.txt final.txt new.txt  
this is new  
this is new  
this is new  
shruti@LINUX:~$ grep -l "this" shru.txt final.txt new.txt  
shru.txt  
final.txt  
new.txt  
shruti@LINUX:~$
```

```
Activities Terminal Apr 13 11:22 shruti@LINUX: ~
shruti@LINUX:~$ cat > hi.txt
hi from shruti
^C
shruti@LINUX:~$ cat > hello.txt
hello from shruti
welcome to day2 training of linux
^C
shruti@LINUX:~$
shruti@LINUX:~$ cat hi.txt >> hello.txt
shruti@LINUX:~$ cat hi.txt
hi from shruti
shruti@LINUX:~$ cat hello.txt
hello from shruti
welcome to day2 training of linux
hi from shruti
shruti@LINUX:~$ cat shru.txt hi.txt hello.txt > final.txt
shruti@LINUX:~$ cat final.txt
this is new
bye bye 2022
hi from shruti
hello from shruti
welcome to day2 training of linux
hi from shruti
shruti@LINUX:~$ hostnamectl
Static hostname: LINUX
Icon name: computer-vm
Chassis: vm
Machine ID: 949d33c00a4d42449591df4115e3a11d
Boot ID: 110ec262f0964ddb95db976b0b1b
Virtualization: oracle
Operating System: Ubuntu 22.04.1 LTS
Kernel: Linux 5.15.0-56-generic
Architecture: x86_64
Hardware Vendor: innotek GmbH
Hardware Model: VirtualBox
shruti@LINUX:~$ echo hello
hello
shruti@LINUX:~$
```

```
Activities Terminal Apr 13 11:20 shruti@LINUX: ~  
shruti@LINUX:~$ ls  
1.txt      case.sh    forloop.sh  minnumber.sh  my.txt      pattern.sh  shruti      test.txt      while.sh  
2.txt      Desktop   hello       Music          new         Pictures    shru.txt    try.sh  
3.txt      Documents 'hello M-A' myfile.txt    newnew.txt  Public      snap        until.sh  
amar      Downloads hone       'myfile.txt M-A' new.sh      revpattern.sh steps.sh    verynew.txt  
AOCircle.sh final.txt leap.sh       nytar.tar     new.txt     shru.sh     Templates  Videos  
shruti@LINUX:~$ touch newfile.txt  
shruti@LINUX:~$ touch newfile.txt  
shruti@LINUX:~$ rm newfile.txt  
shruti@LINUX:~$ man ls  
shruti@LINUX:~$ mkdir shrutikaa  
shruti@LINUX:~$ rmdir shrutikaa  
shruti@LINUX:~$ cat hi.txt  
cat: hi.txt: No such file or directory  
shruti@LINUX:~$ cat > hi.txt  
hi from shruti  
^C  
shruti@LINUX:~$ cat > hello.txt  
hello from shruti  
welcome to day2 training of linux  
^C  
shruti@LINUX:~$  
shruti@LINUX:~$ cat hi.txt >> hello.txt  
shruti@LINUX:~$ cat hi.txt  
hi from shruti  
shruti@LINUX:~$ cat hello.txt  
hello from shruti  
welcome to day2 training of linux  
hi from shruti  
shruti@LINUX:~$ cat shru.txt hi.txt hello.txt > final.txt  
shruti@LINUX:~$ cat final.txt  
this is new  
bye bye 2022  
hi from shruti  
hello from shruti  
welcome to day2 training of linux  
hi from shruti  
shruti@LINUX:~$
```

```
Activities Terminal Apr 13 11:17 shruti@LINUX: ~
shruti@LINUX:~$ uname
Linux
shruti@LINUX:~$ uname -r
5.15.0-56-generic
shruti@LINUX:~$ uname -a
Linux LINUX 5.15.0-56-generic #62-Ubuntu SMP Tue Nov 22 19:54:14 UTC 2022 x86_64 x86_64 x86_64 GNU/Linux
shruti@LINUX:~$ mkdir new
shruti@LINUX:~$ cd .
shruti@LINUX:~$ pwd
/home/shruti
shruti@LINUX:~$ ls
1.txt      case.sh    forloop.sh  minnumber.sh  my.txt      pattern.sh  shruti      test.txt      while.sh
2.txt      Desktop   hello       Music          new         Pictures    shru.txt   try.sh
3.txt      Documents 'hello M-A' myfile.txt    newnew.txt  Public      snap        until.sh
amar      Downloads hone       'nyfile.txt M-A' new.sh      revpattern.sh steps.sh     verynew.txt
AOCircle.sh final.txt  leap.sh      nytar.tar      new.txt     shru.sh    Templates  Videos
shruti@LINUX:~$ touch newfile.txt
shruti@LINUX:~$ touch newfile.txt
shruti@LINUX:~$ rm newfile.txt
shruti@LINUX:~$ man ls
shruti@LINUX:~$ mkdir shrutikaa
shruti@LINUX:~$ rmdir shrutikaa
shruti@LINUX:~$
```