

```
Activities Terminal Apr 12 16:48 shruti@LINUX: ~  
shruti@LINUX:~/shruti$ cd ..  
shruti@LINUX:~$ tar cvf mytar.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 amar Desktop final.txt minnumber.sh my.txt new.txt Public shruti steps.sh try.sh Videos  
2.txt AOCircle.sh Documents forloop.sh Music newnew.txt pattern.sh revpattern.sh shru.txt templates until.sh while.sh  
3.txt case.sh Downloads leap.sh mytar.tar new.sh Pictures shru.sh snap test.txt verynew.txt  
shruti@LINUX:~$ tar -xvf mytar.tar -C /home/shruti  
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:~$ tar cvf mytar.tar  
tar: Cowardly refusing to create an empty archive  
Try 'tar --help' or 'tar --usage' for more information.  
shruti@LINUX:~$ tar -tvf mytar.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:~$ nano myfile.txt  
shruti@LINUX:~$ cat myfile.txt  
cat: myfile.txt: No such file or directory  
shruti@LINUX:~$ cat > myfile.txt  
hello this is me  
^C  
shruti@LINUX:~$ echo myfile.txt  
myfile.txt  
shruti@LINUX:~$ cat > myfile.txt  
^C  
shruti@LINUX:~$
```

```
Activities Terminal Apr 12 16:43 shruti@LINUX: ~
sr0 11:0 1 1073741312 0 rom
shruti@LINUX:~$ tar -cvf newnew.txt new.txt
new.txt
shruti@LINUX:~$ tar -tvf newnew.tar
tar: newnew.tar: Cannot open: No such file or directory
tar: Error is not recoverable: exiting now
shruti@LINUX:~$ tar -tvf new.tar
tar: new.tar: Cannot open: No such file or directory
tar: Error is not recoverable: exiting now
shruti@LINUX:~$ ls
1.txt AOCircle.sh Downloads forloop.sh my.txt pattern.sh reverse.sh shru.txt test.txt Videos
2.txt case.sh fact.sh leap.sh newnew.txt Pictures revpattern.sh snap try.sh while.sh
3.txt Desktop flb.sh minnumber.sh new.sh posneg.sh shru.sh steps.sh until.sh
amar Documents final.txt Music new.txt Public shruti Templates verynew.txt
shruti@LINUX:~$ cd shruti
shruti@LINUX:~/shruti$ ls
shruti@LINUX:~/shruti$ cd dir1
bash: cd: dir1: No such file or directory
shruti@LINUX:~/shruti$ cd shruti
bash: cd: shruti: No such file or directory
shruti@LINUX:~/shruti$ pwd
/home/shruti/shruti
shruti@LINUX:~/shruti$ ls
fact.sh fib.sh posneg.sh reverse.sh
shruti@LINUX:~/shruti$ cd ..
shruti@LINUX:~$ tar cvf mytar.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 amar Desktop final.txt minnumber.sh my.txt new.txt Public revpattern.sh shruti steps.sh try.sh Videos
2.txt AOCircle.sh Documents forloop.sh Music newnew.txt pattern.sh shru.txt templates until.sh while.sh
3.txt case.sh Downloads leap.sh mytar.tar new.sh Pictures shru.sh snap test.txt verynew.txt
shruti@LINUX:~$
```

```
Activities Terminal Apr 12 16:36 shruti@LINUX: ~  
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 -a  
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS  
loop0 7:0 0 62M 1 loop /snap/core20/1587  
loop1 7:1 0 4K 1 loop /snap/bare/5  
loop2 7:2 0 72.9M 1 loop /snap/core22/469  
loop3 7:3 0 163.3M 1 loop /snap/firefox/1635  
loop4 7:4 0 400.8M 1 loop /snap/gnome-3-38-2004/112  
loop5 7:5 0 346.3M 1 loop /snap/gnome-3-38-2004/119  
loop6 7:6 0 91.7M 1 loop /snap/gtk-common-themes/1535  
loop7 7:7 0 45.9M 1 loop /snap/snap-store/582  
loop8 7:8 0 45.9M 1 loop /snap/snap-store/638  
loop9 7:9 0 284K 1 loop /snap/snapd-desktop-integration/14  
loop10 7:10 0 238.4M 1 loop /snap/firefox/2211  
loop11 7:11 0 9.6M 1 loop /snap/htop/3417  
loop12 7:12 0 49.6M 1 loop /snap/snapd/17883  
loop13 7:13 0 63.3M 1 loop /snap/core20/1778  
loop14 7:14 0 364K 1 loop /snap/snapd-desktop-integration/49  
loop15 7:15 0 0B 0 loop  
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 64970752 1 loop /snap/core20/1587  
loop1 7:1 0 4096 1 loop /snap/bare/5  
loop2 7:2 0 76451840 1 loop /snap/core22/469  
loop3 7:3 0 171225088 1 loop /snap/firefox/1635  
loop4 7:4 0 420265984 1 loop /snap/gnome-3-38-2004/112  
loop5 7:5 0 363151360 1 loop /snap/gnome-3-38-2004/119  
loop6 7:6 0 26411520 1 loop /snap/gtk-common-themes/1535  
loop7 7:7 0 4590000 1 loop /snap/snap-store/582  
loop8 7:8 0 4590000 1 loop /snap/snap-store/638  
loop9 7:9 0 284000 1 loop /snap/snapd-desktop-integration/14  
loop10 7:10 0 238400000 1 loop /snap/firefox/2211  
loop11 7:11 0 9600 1 loop /snap/htop/3417  
loop12 7:12 0 496000 1 loop /snap/snapd/17883  
loop13 7:13 0 633000 1 loop /snap/core20/1778  
loop14 7:14 0 364000 1 loop /snap/snapd-desktop-integration/49  
loop15 7:15 0 0 0 loop  
sda 8:0 0 51300000 0 disk  
├─sda1 8:1 0 1000000 0 part  
├─sda2 8:2 0 513000000 0 part /boot/efi  
└─sda3 8:3 0 50800000 0 part /var/snap/firefox/common/host-hunspell  
/  
sr0 11:0 1 1024000 0 rom
```

```
Activities Terminal Apr 12 16:35 shruti@LINUX: ~
shruti@LINUX:~$ du -sh
136356 total
134M
shruti@LINUX:~$ hostnamectl
Static hostname: LINUX
Icon name: computer-vm
Chassis: vm
Machine ID: 949d33c00a4d42449591df4115e3a11d
Boot ID: 081d460082b64fe095abb360821f8db9
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:~$ dmidecode
# dmidecode 3.3
/sys/firmware/dmi/tables/smbios_entry_point: Permission denied
Scanning /dev/mem for entry point.
/dev/mem: Permission denied
shruti@LINUX:~$ lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0       7:0      0   62M  1 loop /snap/core20/1587
loop1       7:1      0    4K  1 loop /snap/bare/5
loop2       7:2      0  72.9M  1 loop /snap/core22/469
loop3       7:3      0 163.3M  1 loop /snap/firefox/1635
loop4       7:4      0 400.8M  1 loop /snap/gnome-3-38-2004/112
loop5       7:5      0 346.3M  1 loop /snap/gnome-3-38-2004/119
loop6       7:6      0  91.7M  1 loop /snap/gtk-common-themes/1535
loop7       7:7      0  45.9M  1 loop /snap/snap-store/582
loop8       7:8      0  45.9M  1 loop /snap/snap-store/638
loop9       7:9      0   284K  1 loop /snap/snapd-desktop-integration/14
loop10      7:10     0 238.4M  1 loop /snap/firefox/2211
loop11      7:11     0   9.6M  1 loop /snap/htop/3417
loop12      7:12     0  49.6M  1 loop /snap/snapd/17883
loop13      7:13     0  63.3M  1 loop /snap/core20/1778
loop14      7:14     0   304K  1 loop /snap/snapd-desktop-integration/49
sda         8:0      0 51.3G  0 disk
```



```
Activities Terminal Apr 12 16:32 shruti@LINUX: ~
684K ./local/share
688K ./local
12K ./gnupg
133M
shruti@LINUX:~$ du -c
4 ./amar
4 ./mozilla/extensions
8 ./mozilla
4 ./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
44 ./snap/firefox/1635/.config
4 ./snap/firefox/1635/.local/share/glib-2.0/schemas
8 ./snap/firefox/1635/.local/share/glib-2.0
4 ./snap/firefox/1635/.local/share/icons
16 ./snap/firefox/1635/.local/share
20 ./snap/firefox/1635/.local
72 ./snap/firefox/1635
4 ./snap/firefox/common/.mozilla/firefox/Pending Pings
4 ./snap/firefox/common/.mozilla/firefox/Crash Reports/events
16 ./snap/firefox/common/.mozilla/firefox/Crash Reports
4 ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/temporary
4 ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent/chrome/ldb/3561288849sdhlie.files
4 ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent/chrome/ldb/1451318868ntouromlalnody--epcr.files
4 ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent/chrome/ldb/2823318777ntouromlalnody--naod.files
4 ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent/chrome/ldb/1657114595AmcateirvtiSty.files
4 ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent/chrome/ldb/2918063365piupsah.files
4 ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent/chrome/ldb/3870112724rsegnnoittet-es.files/journals
800 ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent/chrome/ldb/3870112724rsegnnoittet-es.files
8852 ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent/chrome/ldb
8860 ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent/chrome
8864 ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent
16 ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/default/https+++accounts.google.com/ls
24 ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/default/https+++accounts.google.com
```

ActivitiesTerminal

Apr 12 16:32

shruti@LINUX: ~

shruti@LINUX: ~

12K

4.0K

4.0K

8.0K

12K

4.0K

8.0K

4.0K

8.0K

4.0K

8.0K

16K

8.0K

4.0K

16K

8.0K

4.0K

16K

4.0K

92K

4.0K

100K

4.0K

8.0K

4.0K

8.0K

152K

356K

4.0K

364K

4.0K

4.0K

76K

4.0K

684K

688K

12K

133M

shruti@LINUX:~\$

./local/share/gnome-shell

./local/share/ibus-table

./local/share/flatpak/db

./local/share/flatpak

./local/share/keyrings

./local/share/nano

./local/share/webkitgtk/storage

./local/share/webkitgtk/deviceidhashsalts/1

./local/share/webkitgtk/deviceidhashsalts

./local/share/webkitgtk

./local/share/sounds

./local/share/evolution/tasks/system

./local/share/evolution/tasks/trash

./local/share/evolution/tasks

./local/share/evolution/calendar/system

./local/share/evolution/calendar/trash

./local/share/evolution/calendar

./local/share/evolution/addressbook/system/photos

./local/share/evolution/addressbook/system

./local/share/evolution/addressbook/trash

./local/share/evolution/addressbook

./local/share/evolution/memos/trash

./local/share/evolution/memos

./local/share/evolution/mail/trash

./local/share/evolution/mail

./local/share/evolution

./local/share/nautilus/tags

./local/share/nautilus/scripts

./local/share/nautilus

./local/share/gnome-settings-daemon

./local/share/icc

./local/share/gvfs-metadata

./local/share/applications

./local/share


./local

./gnupg

.

```
Activities Terminal Apr 12 16:32 shruti@LINUX: ~  
684 ./local/share  
688 ./local  
12 ./gnupg  
134672 .  
shruti@LINUX:~$ du -h  
4.0K ./amar  
4.0K ./mozilla/extensions  
8.0K ./mozilla  
4.0K ./shruti  
4.0K ./ssh  
8.0K ./snap/firefox/1635/.config/fontconfig  
4.0K ./snap/firefox/1635/.config/gtk-3.0  
4.0K ./snap/firefox/1635/.config/gtk-2.0  
4.0K ./snap/firefox/1635/.config/dconf  
4.0K ./snap/firefox/1635/.config/ibus  
44K ./snap/firefox/1635/.config  
4.0K ./snap/firefox/1635/.local/share/glib-2.0/schemas  
8.0K ./snap/firefox/1635/.local/share/glib-2.0  
4.0K ./snap/firefox/1635/.local/share/icons  
16K ./snap/firefox/1635/.local/share  
20K ./snap/firefox/1635/.local  
72K ./snap/firefox/1635  
4.0K ./snap/firefox/common/.mozilla/firefox/Pending Pings  
4.0K ./snap/firefox/common/.mozilla/firefox/Crash Reports/events  
16K ./snap/firefox/common/.mozilla/firefox/Crash Reports  
4.0K ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/temporary  
4.0K ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent/chrome/idb/3561288849sdhlie.files  
4.0K ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent/chrome/idb/1451318868ntouromlainodry--epcr.files  
4.0K ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent/chrome/idb/2823318777ntouromlainodry--naod.files  
4.0K ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent/chrome/idb/1657114595AmcateirvtiSty.files  
4.0K ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent/chrome/idb/2918063365piupsah.files  
4.0K ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent/chrome/idb/3870112724rsegnnoittet-es.files/journals  
800K ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent/chrome/idb/3870112724rsegnnoittet-es.files  
8.7M ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent/chrome/idb  
8.7M ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent/chrome  
8.7M ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/permanent  
16K ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/default/https+++accounts.google.com/ls  
24K ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/default/https+++accounts.google.com  
4.0K ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/default/moz-extension+uda47b8a2-c2e1-4ffe-95a2-6023b840f5d2UserCont
```


ActivitiesTerminalApr 12 16:31shruti@LINUX: ~



```
12 ./local/share/gnome-shell
4  ./local/share/ibus-table
4  ./local/share/flatpak/db
8  ./local/share/flatpak
12 ./local/share/keyrings
4  ./local/share/nano
8  ./local/share/webkitgtk/storage
4  ./local/share/webkitgtk/deviceidhashsalts/1
8  ./local/share/webkitgtk/deviceidhashsalts
20 ./local/share/webkitgtk
4  ./local/share/sounds
8  ./local/share/evolution/tasks/system
4  ./local/share/evolution/tasks/trash
16 ./local/share/evolution/tasks
8  ./local/share/evolution/calendar/system
4  ./local/share/evolution/calendar/trash
16 ./local/share/evolution/calendar
4  ./local/share/evolution/addressbook/system/photos
92 ./local/share/evolution/addressbook/system
4  ./local/share/evolution/addressbook/trash
100 ./local/share/evolution/addressbook
4  ./local/share/evolution/memos/trash
8  ./local/share/evolution/memos
4  ./local/share/evolution/mail/trash
8  ./local/share/evolution/mail
152 ./local/share/evolution
356 ./local/share/nautilus/tags
4  ./local/share/nautilus/scripts
364 ./local/share/nautilus
4  ./local/share/gnome-settings-daemon
4  ./local/share/icc
76  ./local/share/gvfs-metadata
4  ./local/share/applications
684 ./local/share
688 ./local
12  ./gnupg
134672 .
shruti@LINUX:~$
```

```
Activities Terminal Apr 12 16:31 shruti@LINUX: ~
shruti@LINUX:~$ 
shruti@LINUX:~$ 
shruti@LINUX:~$ 
shruti@LINUX:~$ awk 'END {print NR}' shru.txt
2
shruti@LINUX:~$ uname[-a]
uname[-a]: command not found
shruti@LINUX:~$ lsb_release[-option]
lsb_release[-option]: command not found
shruti@LINUX:~$ uname [-a]
uname: extra operand '[-a]'
Try 'uname --help' for more information.
shruti@LINUX:~$ systemctl status apache2.server
Unit apache2.server.service could not be found.
shruti@LINUX:~$ systemctl status network
Unit network.service could not be found.
shruti@LINUX:~$ du
4      ./amar
4      ./mozilla/extensions
8      ./mozilla
4      ./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
44     ./snap/firefox/1635/.config
4      ./snap/firefox/1635/.local/share/glib-2.0/schemas
8      ./snap/firefox/1635/.local/share/glib-2.0
4      ./snap/firefox/1635/.local/share/icons
16     ./snap/firefox/1635/.local/share
20     ./snap/firefox/1635/.local
72     ./snap/firefox/1635
4      ./snap/firefox/common/.mozilla/firefox/Pending Pings
4      ./snap/firefox/common/.mozilla/firefox/Crash Reports/events
16     ./snap/firefox/common/.mozilla/firefox/Crash Reports
4      ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/temporary
1      ./snap/firefox/common/.mozilla/firefox/znlp0upy.default/storage/temporary/chrome-idb/2f61309040-4b11a-Files
```

```
Activities Terminal Apr 12 16:23 shruti@LINUX: ~
-W dump      show assembler-like listing of program and exit.
-W help      show this message and exit.
-W interactive set unbuffered output, line-buffered input.
-W exec file  use file as program as well as last option.
-W random=number set initial random seed.
-W sprintf=number adjust size of sprintf buffer.
-W posix_space do not consider "\n" a space.
-W usage     show this message and exit.
shruti@LINUX:~$ cat shru.txt | awk '{print $1}'
this
bye
shruti@LINUX:~$ cat shru.txt | awk '{print $2}'
is
bye
shruti@LINUX:~$ cat shru.txt | awk '{print $NF}'
new
2022
shruti@LINUX:~$ cat shru.txt
this is new
bye bye 2022
shruti@LINUX:~$ awk 'NR==1,NR==2 {print NR, $0}' shru.txt
1 this is new
2 bye bye 2022
shruti@LINUX:~$ awk
Usage: mawk [Options] [Program] [file ...]

Program:
The -f option value is the name of a file containing program text.
If no -f option is given, a "--" ends option processing; the following
parameters are the program text.

Options:
-f program-file  Program text is read from file instead of from the
                  command-line. Multiple -f options are accepted.
-F value        sets the field separator, FS, to value.
-v var=value    assigns value to program variable var.
--              unambiguous end of options.

Implementation-specific options are prefixed with "-W". They can be
```

```
Activities Terminal Apr 12 16:20 shruti@LINUX: ~
shruti@LINUX:~$ cat shru.txt
hi hi 2022
this is new
bye bye 2022
shruti@LINUX:~$ cat shru.txt | awk
Usage: mawk [Options] [Program] [file ...]

Program:
The -f option value is the name of a file containing program text.
If no -f option is given, a "--" ends option processing; the following
parameters are the program text.

Options:
-f program-file  Program text is read from file instead of from the
                  command-line. Multiple -f options are accepted.
-F value         sets the field separator, FS, to value.
-v var=value     assigns value to program variable var.
--              unambiguous end of options.

Implementation-specific options are prefixed with "-W". They can be
abbreviated:

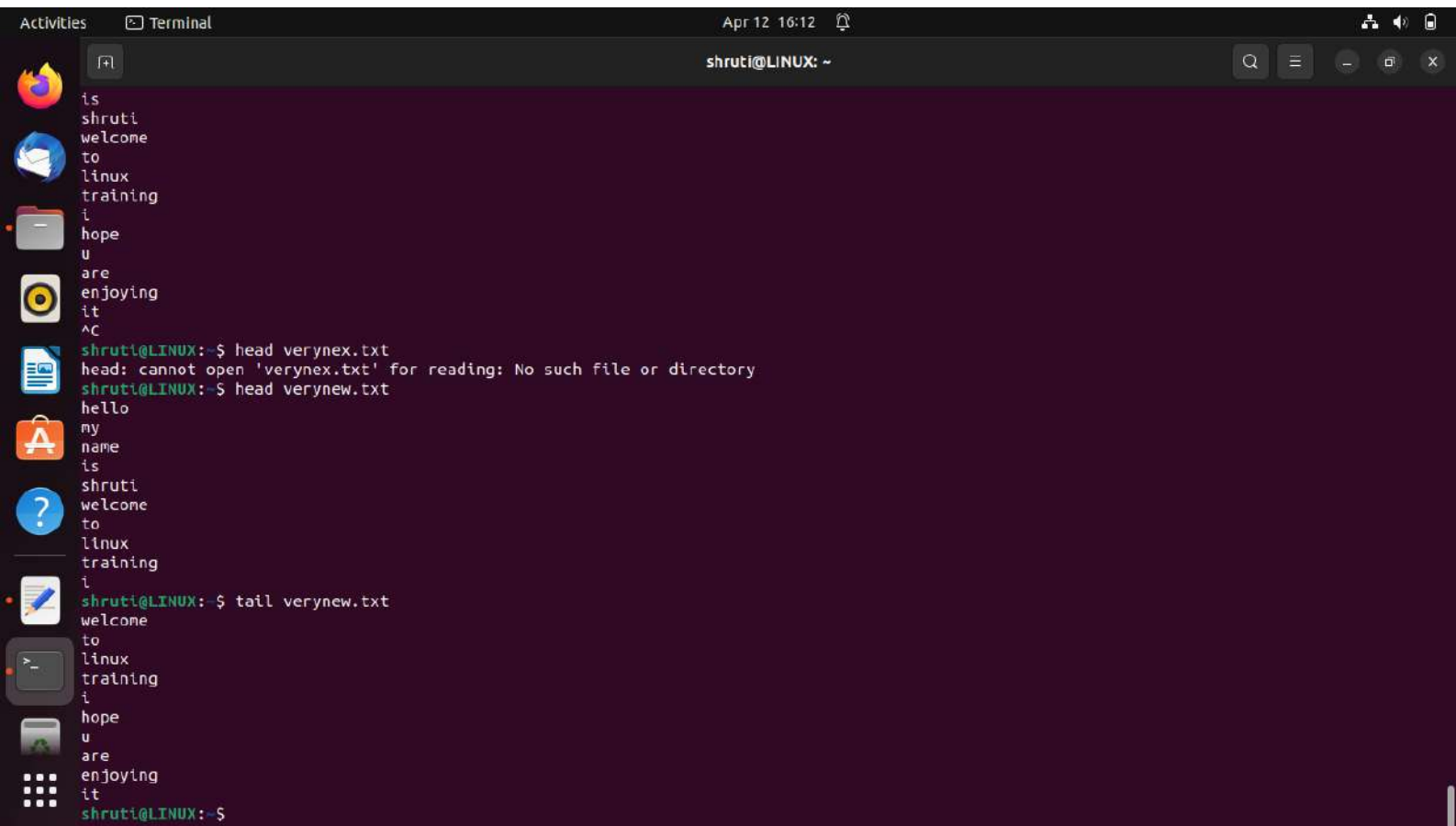
-W version      show version information and exit.
-W dump         show assembler-like listing of program and exit.
-W help         show this message and exit.
-W interactive  set unbuffered output, line-buffered input.
-W exec file    use file as program as well as last option.
-W random=number set initial random seed.
-W sprintf=number adjust size of sprintf buffer.
-W posix_space  do not consider "\n" a space.
-W usage        show this message and exit.

shruti@LINUX:~$ cat shru.txt | awk '{print $1}'
hi
bye
shruti@LINUX:~$ cat shru.txt | awk '{print $2}'
is
bye
shruti@LINUX:~$
```



```
Activities Terminal Apr 12 16:18 shruti@LINUX: ~
shruti@LINUX:~$
shruti@LINUX:~$
shruti@LINUX:~$
shruti@LINUX:~$
shruti@LINUX:~$
shruti@LINUX:~$
shruti@LINUX:~$
shruti@LINUX:~$
shruti@LINUX:~$
shruti@LINUX:~$
shruti@LINUX:~$
shruti@LINUX:~$
shruti@LINUX:~$ cat final.txt
bye
bye bye 2022
this is new
bye bye 2022
shruti@LINUX:~$ sed 's/bye/hi' final.txt
sed: -e expression #1, char 8: unterminated 's' command
shruti@LINUX:~$ sed '-e/bye/hi' final.txt
sed: -e expression #1, char 7: extra characters after command
shruti@LINUX:~$ sed 's/bye/hi/' final.txt
hi
hi bye 2022
this is new
hi bye 2022
shruti@LINUX:~$ sed 's/bye/hi/2' final.txt
bye
bye hi 2022
this is new
bye hi 2022
shruti@LINUX:~$ sed 's/bye/hi/g' final.txt
hi
hi hi 2022
this is new
hi hi 2022
shruti@LINUX:~$
```

ActivitiesTerminalApr 12 16:12shruti@LINUX: ~



```
is
shruti
welcome
to
linux
training
i
hope
u
are
enjoying
it
AC
shruti@LINUX:~$ head verynex.txt
head: cannot open 'verynex.txt' for reading: No such file or directory
shruti@LINUX:~$ head verynew.txt
hello
my
name
is
shruti
welcome
to
linux
training
i
shruti@LINUX:~$ tail verynew.txt
welcome
to
linux
training
i
hope
u
are
enjoying
it
shruti@LINUX:~$
```

Activities Terminal Apr 12 16:12 shruti@LINUX: ~

```
shruti@LINUX:~$ chmod u+r final.txt
shruti@LINUX:~$ chmod u+w final.txt
shruti@LINUX:~$ chmod g+w final.txt
shruti@LINUX:~$ cat verynew.txt
cat: verynew.txt: No such file or directory
shruti@LINUX:~$ echo verynew.txt
verynew.txt
shruti@LINUX:~$ cat> verynew.txt
hello
my
name
is
shruti
welcome
to
linux
training
i
hope
u
are
enjoying
it
^C
shruti@LINUX:~$ head verynex.txt
head: cannot open 'verynex.txt' for reading: No such file or directory
shruti@LINUX:~$ head verynew.txt
hello
my
name
is
shruti
welcome
to
linux
training
i
shruti@LINUX:~$
```

```
Activities Terminal Apr 12 16:02 shruti@LINUX: ~
drwxr-xr-x 2 shruti shruti 4096 Dec 27 13:56 Videos
-rwxrwxrwx 1 shruti shruti 82 Dec 29 15:52 while.sh
shruti@LINUX:~$ chmod +x shru.txt
shruti@LINUX:~$ chmod -rw final.txt
shruti@LINUX:~$ cat final.txt
cat: final.txt: Permission denied
shruti@LINUX:~$ chmod +r final.txt
shruti@LINUX:~$ cat final.txt
bye
bye bye 2022
this is new
bye bye 2022
shruti@LINUX:~$ chmod u=w final.txt
shruti@LINUX:~$ ls -l
total 144
-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 15:28 Desktop
drwxr-xr-x 2 shruti shruti 4096 Dec 27 13:56 Documents
drwxr-xr-x 2 shruti shruti 4096 Dec 27 13:56 Downloads
-rwxrwxrwx 1 shruti shruti 76 Dec 29 18:37 fact.sh
-rwxrwxrwx 1 shruti shruti 127 Dec 29 18:58 fib.sh
-rw-r--r-- 1 shruti shruti 43 Dec 30 09:11 final.txt
-rwxrwxrwx 1 shruti shruti 73 Dec 29 15:30 forloop.sh
-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 13 Dec 30 09:08 my.txt
-rwxrwxrwx 1 shruti shruti 23 Dec 29 10:13 new.sh
-rw-rw-r-- 1 shruti shruti 38 Apr 12 15:42 new.txt
-rwxrwxrwx 1 shruti shruti 106 Dec 29 17:46 pattern.sh
drwxr-xr-x 3 shruti shruti 4096 Apr 12 15:26 Pictures
-rwxrwxrwx 1 shruti shruti 122 Dec 29 12:59 posneg.sh
drwxr-xr-x 2 shruti shruti 4096 Dec 27 13:56 Public
```



```
shruti@LINUX: ~
my.txt:bye bye 2022
shruti@LINUX:~$ ls
1.txt  amar  Desktop  fact.sh  forloop.sh  Music  new.txt  posneg.sh  revpattern.sh  shru.txt  Templates  untill.sh
2.txt  AOCircle.sh  Documents  fib.sh  leap.sh  my.txt  pattern.sh  Public  shru.sh  snap  test.txt  Videos
3.txt  case.sh  Downloads  final.txt  minnumber.sh  new.sh  Pictures  reverse.sh  shruti  steps.sh  try.sh  while.sh
shruti@LINUX:~$ ls -l
total 144
-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 15:28 Desktop
drwxr-xr-x 2 shruti shruti 4096 Dec 27 13:56 Documents
drwxr-xr-x 2 shruti shruti 4096 Dec 27 13:56 Downloads
-rwxrwxrwx 1 shruti shruti   76 Dec 29 18:37 fact.sh
-rwxrwxrwx 1 shruti shruti  127 Dec 29 18:58 fib.sh
-rw-rw-r-- 1 shruti shruti   43 Dec 30 09:11 final.txt
-rwxrwxrwx 1 shruti shruti   73 Dec 29 15:30 forloop.sh
-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   13 Dec 30 09:08 my.txt
-rwxrwxrwx 1 shruti shruti   23 Dec 29 10:13 new.sh
-rw-rw-r-- 1 shruti shruti   38 Apr 12 15:42 new.txt
-rwxrwxrwx 1 shruti shruti  106 Dec 29 17:46 pattern.sh
drwxr-xr-x 3 shruti shruti 4096 Apr 12 15:26 Pictures
-rwxrwxrwx 1 shruti shruti  122 Dec 29 12:59 posneg.sh
drwxr-xr-x 2 shruti shruti 4096 Dec 27 13:56 Public
-rwxrwxrwx 1 shruti shruti   49 Dec 29 15:33 reverse.sh
-rwxrwxrwx 1 shruti shruti   77 Dec 29 18:22 revpattern.sh
-rwxrwxrwx 1 shruti shruti   32 Dec 29 10:16 shru.sh
drwxrwxr-x 2 shruti shruti 4096 Dec 30 09:52 shruti
-rw-rw-r-- 1 shruti shruti   25 Dec 30 09:10 shru.txt
drwx----- 6 shruti shruti 4096 Dec 30 10:30 snap
-rw-rw-r-- 1 shruti shruti   85 Dec 29 15:32 steps.sh
drwxr-xr-x 2 shruti shruti 4096 Dec 27 13:56 Templates
-rw-rw-r-- 1 shruti shruti  115 Dec 30 09:17 test.txt
```

```
Activities Terminal Apr 12 15:54 shruti@LINUX: ~
shruti@LINUX:~$
shruti@LINUX:~$
shruti@LINUX:~$
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:~$ cat ny.txt
bye bye 2022
shruti@LINUX:~$ grep "bye" shru.txt new.txt ny.txt
shru.txt:bye bye 2022
new.txt:bye bye 2022
new.txt:bye bye 2022
ny.txt:bye bye 2022
shruti@LINUX:~$ grep -c "bye" shru.txt new.txt ny.txt
shru.txt:1
new.txt:2
ny.txt:1
shruti@LINUX:~$ grep -h "bye" shru.txt new.txt ny.txt
bye bye 2022
bye bye 2022
bye bye 2022
bye bye 2022
shruti@LINUX:~$ grep -h "new" shru.txt new.txt ny.txt
this is new
this is new
shruti@LINUX:~$ grep -l "new" shru.txt new.txt ny.txt
shru.txt
new.txt
shruti@LINUX:~$ grep -n "bye" shru.txt new.txt ny.txt
shru.txt:2:bye bye 2022
new.txt:2:bye bye 2022
new.txt:3:bye bye 2022
ny.txt:1:bye bye 2022
shruti@LINUX:~$
```

```
Activities Terminal Apr 12 15:49 shruti@LINUX: ~
shruti@LINUX:~$ cat new.txt
cat: new.txt: No such file or directory
shruti@LINUX:~$ cat > new.txt
"hello"
^C
shruti@LINUX:~$ cat shru.txt >> new.txt
shruti@LINUX:~$ cat shru.txt my.txt > new.txt
shruti@LINUX:~$ whoami
shruti
shruti@LINUX:~$ hostnamectl
Static hostname: LINUX
Icon name: computer-vm
Chassis: vm
Machine ID: 949d33c00a4d42449591df4115e3a11d
Boot ID: 081d460082b64fe095abb360821f8db9
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:~$ cp new.txt
cp: missing destination file operand after 'new.txt'
Try 'cp --help' for more information.
shruti@LINUX:~$ cp new.txt /home
cp: cannot create regular file '/home/new.txt': Permission denied
shruti@LINUX:~$ echo new.txt
new.txt
shruti@LINUX:~$ echo hello
hello
shruti@LINUX:~$ echo -e "hello shru"
hello shru
shruti@LINUX:~$ echo -e "hello \t shru"
hello    shru
shruti@LINUX:~$ v= "2"
2: command not found
shruti@LINUX:~$ echo v= "2"
v= 2
shruti@LINUX:~$ echo u= "42"
```

Try 'cp --help' for more information.

```
shruti@LINUX:~$ cp shru /home
```

```
cp: cannot stat 'shru': No such file or directory
```

```
shruti@LINUX:~$ ls -l test
```

```
ls: cannot access 'test': No such file or directory
```

```
shruti@LINUX:~$ pwd
```

```
/home/shruti
```

```
shruti@LINUX:~$ ls -l test.txt
```

```
-rw-rw-r-- 1 shruti shruti 115 Dec 30 09:17 test.txt
```

```
shruti@LINUX:~$ cat new.txt
```

```
cat: new.txt: No such file or directory
```

```
shruti@LINUX:~$ cat > new.txt
```

```
"hello"
```

```
^C
```

```
shruti@LINUX:~$ cat shru.txt >> new.txt
```

```
shruti@LINUX:~$ cat shru.txt my.txt > new.txt
```

```
shruti@LINUX:~$ whoami
```

```
shruti
```

```
shruti@LINUX:~$ hostnamectl
```

```
Static hostname: LINUX
```

```
Icon name: computer-vm
```

```
Chassis: vm
```

```
Machine ID: 949d33c00a4d42449591df4115e3a11d
```

```
Boot ID: 081d460082b64fe095abb360821f8db9
```

```
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:~$ cp new.txt
```

```
cp: missing destination file operand after 'new.txt'
```

```
Try 'cp --help' for more information.
```

```
shruti@LINUX:~$ cp new.txt /home
```

```
cp: cannot create regular file '/home/new.txt': Permission denied
```

```
shruti@LINUX:~$ echo new.txt
```

```
new.txt
```

```
shruti@LINUX:~$
```



```
Activities Terminal Apr 12 15:41 shruti@LINUX: ~  
1.txt amar Desktop fact.sh forloop.sh Music pattern.sh Public shru.sh snap test.txt Videos  
2.txt AOCircle.sh Documents fib.sh leap.sh my.txt Pictures reverse.sh shruti steps.sh try.sh while.sh  
3.txt case.sh Downloads final.txt minnumber.sh new.sh posneg.sh revpattern.sh shru.txt Templates until.sh  
shruti@LINUX:~$ cd desktop/  
bash: cd: desktop/: No such file or directory  
shruti@LINUX:~$ cd Desktop/  
shruti@LINUX:~/Desktop$ pwd  
/home/shruti/Desktop  
shruti@LINUX:~/Desktop$ cd ..  
shruti@LINUX:~$ touch file.txt  
shruti@LINUX:~$ touch file.txt  
shruti@LINUX:~$ rm file.txt  
shruti@LINUX:~$ mkdir shrutika  
shruti@LINUX:~$ rmdir shrutika  
shruti@LINUX:~$ man  
What manual page do you want?  
For example, try 'man man'.  
shruti@LINUX:~$ man ls  
shruti@LINUX:~$ cp file /home  
cp: cannot stat 'file': No such file or directory  
shruti@LINUX:~$ cp shru/home  
cp: missing destination file operand after 'shru/home'  
Try 'cp --help' for more information.  
shruti@LINUX:~$ cp shru /home  
cp: cannot stat 'shru': No such file or directory  
shruti@LINUX:~$ ls -l test  
ls: cannot access 'test': No such file or directory  
shruti@LINUX:~$ pwd  
/home/shruti  
shruti@LINUX:~$ ls -l test.txt  
-rw-rw-r-- 1 shruti shruti 115 Dec 30 09:17 test.txt  
shruti@LINUX:~$ cat new.txt  
cat: new.txt: No such file or directory  
shruti@LINUX:~$ cat > new.txt  
"hello"  
^C  
shruti@LINUX:~$ cat shru.txt >> new.txt  
shruti@LINUX:~$
```

```
Activities Terminal Apr 12 15:38 shruti@LINUX: ~
shruti@LINUX:~/Desktop$ ./shruti
bash: ./shruti: No such file or directory
shruti@LINUX:~/Desktop$ ./shru
bash: ./shru: Is a directory
shruti@LINUX:~/Desktop$ ./desktop
bash: ./desktop: No such file or directory
shruti@LINUX:~/Desktop$ pwd
/home/shruti/Desktop
shruti@LINUX:~/Desktop$ cd ..
shruti@LINUX:~$ pwd
/home/shruti
shruti@LINUX:~$ ls
1.txt amar Desktop fact.sh forloop.sh Music pattern.sh Public shru.sh snap test.txt Videos
2.txt AOCircle.sh Documents flb.sh leap.sh my.txt Pictures reverse.sh shruti steps.sh try.sh while.sh
3.txt case.sh Downloads final.txt minnumber.sh new.sh posneg.sh revpattern.sh shru.txt Templates until.sh
shruti@LINUX:~$ cd desktop/
bash: cd: desktop/: No such file or directory
shruti@LINUX:~$ cd Desktop/
shruti@LINUX:~/Desktop$ pwd
/home/shruti/Desktop
shruti@LINUX:~/Desktop$ cd ..
shruti@LINUX:~$ touch file.txt
shruti@LINUX:~$ touch file.txt
shruti@LINUX:~$ rm file.txt
shruti@LINUX:~$ mkdir shrutika
shruti@LINUX:~$ rmdir shrutika
shruti@LINUX:~$ man
What manual page do you want?
For example, try 'man man'.
shruti@LINUX:~$ man ls
shruti@LINUX:~$ cp file /home
cp: cannot stat 'file': No such file or directory
shruti@LINUX:~$ cp shru/home
cp: missing destination file operand after 'shru/home'
Try 'cp --help' for more information.
shruti@LINUX:~$ cp shru /home
cp: cannot stat 'shru': No such file or directory
shruti@LINUX:~$
```

```
Activities Terminal Apr 12 15:34 shruti@LINUX: ~
258 touch file.txt
259 cd home/shruti
260 cd shruti
261 clear
262 pwd
263 ifconfig
264 clear
265 ping 192.168.0.102
266 uname
267 uname -r
268 uname -a
269 history
shruti@LINUX:~/Desktop$ mkdir shru
shruti@LINUX:~/Desktop$ cd .
shruti@LINUX:~/Desktop$ pwd
/home/shruti/Desktop
shruti@LINUX:~/Desktop$ ./shruti
bash: ./shruti: No such file or directory
shruti@LINUX:~/Desktop$ ./shru
bash: ./shru: Is a directory
shruti@LINUX:~/Desktop$ ./desktop
bash: ./desktop: No such file or directory
shruti@LINUX:~/Desktop$ pwd
/home/shruti/Desktop
shruti@LINUX:~/Desktop$ cd ..
shruti@LINUX:~$ pwd
/home/shruti
shruti@LINUX:~$ ls
1.txt  amar  Desktop  fact.sh  forloop.sh  Music  pattern.sh  Public  shru.sh  snap  test.txt  Videos
2.txt  AOCircle.sh  Documents  fib.sh  leap.sh  my.txt  Pictures  reverse.sh  shruti  steps.sh  try.sh  while.sh
3.txt  case.sh  Downloads  final.txt  minnumber.sh  new.sh  posneg.sh  revpattern.sh  shru.txt  templates  until.sh
shruti@LINUX:~$ cd desktop/
bash: cd: desktop/: No such file or directory
shruti@LINUX:~$ cd Desktop/
shruti@LINUX:~/Desktop$ pwd
/home/shruti/Desktop
shruti@LINUX:~/Desktop$ cd ..
shruti@LINUX:~$
```

ActivitiesTerminalApr 12 15:31shruti@LINUX: ~

```
252 clear
253 pwd
254 cd .
255 ls
256 ls -l
257 mkdir dir1
258 touch file.txt
259 cd home/shruti
260 cd shruti
261 clear
262 pwd
263 ifconfig
264 clear
265 ping 192.168.0.102
266 uname
267 uname -r
268 uname -a
269 history
shruti@LINUX:~/Desktop$ mkdir shru
shruti@LINUX:~/Desktop$ cd .
shruti@LINUX:~/Desktop$ pwd
/home/shruti/Desktop
shruti@LINUX:~/Desktop$ ./shruti
bash: ./shruti: No such file or directory
shruti@LINUX:~/Desktop$ ./shru
bash: ./shru: Is a directory
shruti@LINUX:~/Desktop$ ./desktop
bash: ./desktop: No such file or directory
shruti@LINUX:~/Desktop$ pwd
/home/shruti/Desktop
shruti@LINUX:~/Desktop$ cd ..
shruti@LINUX:~$ pwd
/home/shruti
shruti@LINUX:~$ ls
1.txt  amar  Desktop  fact.sh  forloop.sh  Music  pattern.sh  Public  shru.sh  snap  test.txt  Videos
2.txt  AOCircle.sh  Documents  flb.sh  leap.sh  my.txt  Pictures  reverse.sh  shruti  steps.sh  try.sh  while.sh
3.txt  case.sh  Downloads  final.txt  minnumber.sh  new.sh  posneg.sh  revpattern.sh  shru.txt  Templates  until.sh
shruti@LINUX:~$
```



```
Activities  Terminal  Apr 12 15:25  shruti@LINUX: ~/Desktop

shruti@LINUX:~/Desktop$ ping 192.168.0.102
PING 192.168.0.102 (192.168.0.102) 56(84) bytes of data.
^C
--- 192.168.0.102 ping statistics ---
19 packets transmitted, 0 received, 100% packet loss, time 18737ms

shruti@LINUX:~/Desktop$ uname
Linux
shruti@LINUX:~/Desktop$ uname -r
5.15.0-56-generic
shruti@LINUX:~/Desktop$ 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:~/Desktop$ history
1 nano new.sh
2 chmod 777 new.sh
3 ./new.sh
4 nano new.sh
5 chmod 777 new.sh
6 ./new.sh
7 nano.sh
8 nano new.sh
9 chmod 777 new.sh
10 ./new.sh
11 nano new.sh
12 chmod 777 new.sh
13 ./ new.sh
14 nano shru.sh
15 chmod 777 shru.sh
16 ./shru.sh
17 ls
18 ls -l
19 a
20 a=10
21 $a
22 a= "shru"
23 $a
24 a='shru'
25 echo $a
26
```