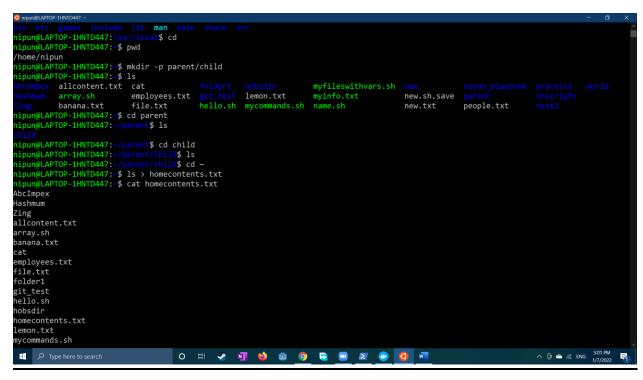
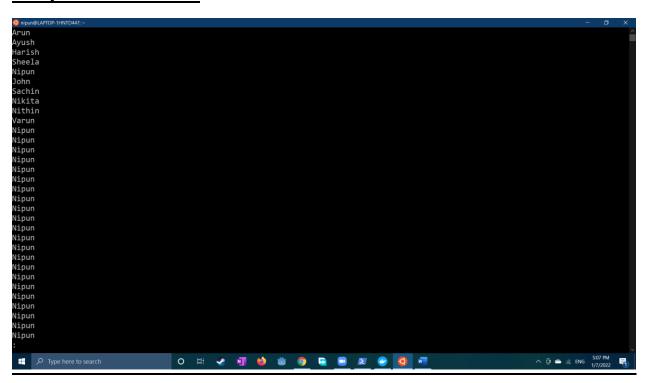
```
ipun@LAPTOP-1HNTD447:~$ pwd
/home/nipun
 nipun@LAPTOP-1HNTD447:~$ cd
nipun@LAPTOP-1HNTD447:~$ ls
                                                  file.txt hobsdir
                                                                                                                       new.txt
                                                 folder1 lemon.txt
git_test mycommands
                        banana.txt
                                                                                                  name.sh
                                                                 mycommands.sh
                                                                                                                        people.txt
allcontent.txt employees.txt hello.sh myfileswithvars.sh new.sh.save
 iipun@LAPTOP-1HNTD447:~$ cd new
iipun@LAPTOP-1HNTD447:~/new$ ls
 nulticontent.txt
 ulticoncentc.ccc
ipun@LAPTOP-1HNTD447:~/new$ cd ..
ipun@LAPTOP-1HNTD447:~$ cd ~
ipun@LAPTOP-1HNTD447:~$ 1s
AbcImpex array.sh file.txt hobsdir myinfo.txt
Hashmum banana.txt folderl lemon.txt name.sh
Zing cat git_test mycommands.sh new
allcontent.txt employees.txt hello.sh myfileswithvars.sh new.sh.save
                                                                                                                       new.txt
                                                                                                                        people.txt
 injun@LAPTOP-1HNTD447:-$ cd ...
nipun@LAPTOP-1HNTD447:/home$ cd usr
-bash: cd: usr: No such file or directory
 ipun@LAPTOP-1HNTD447:/home$ ls
 berry hash1 hash2 nipun tim
hipun@LAPTOP-1HNTD447:/home$ cd ...
  ipun@LAPTOP-1HNTD447:/$ cd usr
 ipun@LAPTOP-1HNTD447:/usr$ ls
 in config games include lib lib3
ipun@LAPTOP-1HNTD447:/usr$ cd ../sys
  ipun@LAPTOP-1HNTD447:/sys$ ls
 nipun@LAPTOP-1HNTD447:/sys$ cd ../usr/local
nipun@LAPTOP-1HNTD447:/usr/local$ ls
```



```
ipun@LAPTOP-1HNTD447:~$ echo "hello guys" > hello.txt
ipun@LAPTOP-1HNTD447:~$ echo "hi" > hello2.txt
ipun@LAPTOP-1HNTD447:~$ ls
                     array.sh
banana.txt
                                                                                       mix.txt
                                                            hobsdir mycommands.sh new parent homecontents.txt myfileswithvars.sh new.sh.save people.txt
allcontent.txt employees.txt hello.txt lemon.txt
nipun@LAPTOP-1HNTD447:~$ cat hello*
hello guys
nipun@LAPTOP-1HNTD447:~$ cat hello* > mix.txt
hello guys
inipun@LAPTOP-1HNTD447:~$ echo "Appended line" >> mix.txt
nipun@LAPTOP-1HNTD447:~$ cat mix.txt
hello guys
Appended line
 ipun@LAPTOP-1HNTD447:~$ less people.txt
ipun@LAPTOP-1HNTD447:~$ ls
                     array.sh
banana.txt
                                            file.txt hello2.txt
                                                                                                                    name.sh
                                                           hobsdir mycomands.sh new parent
homecontents.txt myfileswithvars.sh new.sh.save people.txt
allcontent.txt employees.txt hello.txt lemon.txt
 ipun@LAPTOP-1HNTD447:~$ mv myinfo.txt temp
ipun@LAPTOP-1HNTD447:~$ ls
                                            file.txt hello2.txt
                                                                                      mix.txt
                      banana.txt
                                                                                       mycommands.sh
                                                                                                                    new.sh.save
                                                                                                                                           people.txt
                                                            homecontents.txt myfileswithvars.sh
allcontent.txt employees.txt hello.txt lemon.txt name.sh
nipun@LAPTOP-1HNTD447:~$ cat temp
echo This is the content of myinfo.txt file that is executed by a script.
```

Output of less cmd



```
ipun@LAPTOP-1HNTD447: $ mv temp folder1
  ipun@LAPTOP-1HNTD447:-$ cd folder1
   ipun@LAPTOP-1HNTD447:~/folder1$ ls
a.txt b.txt combo.txt subfolder tennipun@LAPTOP-1HNTD447:~/folder1$ cd ...
nipun@LAPTOP-1HNTD447:-$ cp temp copyoftemp cp: cannot stat 'temp': No such file or directory nipun@LAPTOP-1HNTD447:-$ cp temp copyoftemp.txt cp: cannot stat 'temp': No such file or directory nipun@LAPTOP-1HNTD447:-$ cp a.txt copy.txt
 cp: cannot stat 'a.txt': No such file or directory nipun@LAPTOP-1HNTD447:- $ 1s
                                                       file.txt hello2.txt
                                                                                                          mix.txt
                                                                                                          mycommands.sh
                                                                                                                                                                          people.txt world
                            banana.txt
                                                                                                                                              new.sh.save
                                                                          homecontents.txt myfileswithvars.sh new.txt
allcontent.txt employees.txt hello.txt lemon.txt
nipun@LAPTOP-1HNTD447:~$ cp lemon.txt lime.txt
nipun@LAPTOP-1HNTD447: $ cat lime.txt
 This is the content of lemon.txt
Writing to lemon.txt
nipun@LAPTOP-1HNTD447:-$ cat lemon.txt
This is the content of lemon.txt
Writing to lemon.txt
  ipun@LAPTOP-1HNTD447:-$ whoami
 nipun@LAPTOP-1HNTD447:~$ who
nipun@LAPTOP-1HNTD447:~$ w
nipun@LAPTOP-1HNTD447:-$ w
17:11:10 up 7:08, 0 users, load average: 0.05, 0.09, 0.09
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
nipun@LAPTOP-1HNTD447:-$ id
uid=1000(nipun) gid=1000(nipun) groups=1000(nipun),4(adm),20(dialout),24(cdrom),25(floppy),27(sudo),29(audio),30(dip),44(video),46(plug
dev),117(netdev),1007(docker)
nipun@LAPTOP-1HNTD447:-$
```

```
@LAPTOP-1HNTD447:~$ passwd
Changing password for nipun.
Current password:
New password:
Retype new password:
Password unchanged
New password:
Retype new password:
Sorry, passwords do not match.
passwd: Authentication token manipulation error
passwd: password unchanged
 nipun@LAPTOP-1HNTD447:~$ man man
nipun@LAPTOP-1HNTD447:~$ cd /
 ipun@LAPTOP-1HNTD447:/$ ls
 bcImpex bin dev home lib lib64 lost+found mnt opt root sbin srv tmp var
nitialGalaxy boot etc init lib32 libx32 media new_mount proc run snap sys usr
ipun@LAPTOP-1HNTD447:/$ cat /etc/passwd
InitialGalaxy
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
```

Output of man cmd

```
MAN(1)
                                                                                                                                   Manual pager utils
                                                                                                                                                                                                                                                                                                  MAN(1)
NAME
               \mbox{\em man} - an interface to the system reference manuals
SYNOPSIS
               man [man options] [[section] page ...] ...
man -k [apropos options] regexp ...
man -k [man options] [section] term ...
man -f [whatis options] page ...
man -l [man options] file ...
                man -w -W [man options] page ...
DESCRIPTION
              man is the system's manual pager. Each <u>page</u> argument given to man is normally the name of a program, utility or function. The <u>manual</u> <u>page</u> associated with each of these arguments is then found and displayed. A <u>section</u>, if provided, will direct man to look only in that <u>section</u> of the manual. The default action is to search in all of the available <u>sections</u> following a pre-defined order (see <u>DEFAULTS</u>), and to show only the first <u>page</u> found, even if <u>page</u> exists in several <u>sections</u>.
                The table below shows the section numbers of the manual followed by the types of pages they contain.
                        Executable programs or shell commands
System calls (functions provided by the kernel)
Library calls (functions within program libraries)
Special files (usually found in /dev)
File formats and conventions, e.g. /etc/passwd
                        Games
                        Miscellaneous (including macro packages and conventions), e.g. man(7), groff(7) System administration commands (usually only for root)
                         Kernel routines [Non standard]
A manual page consists of several sections.

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

```
Isudo] password for nipun:

Adding user 'user32' ...

Adding new group 'user32' (1016) ...

Adding new user 'user32' (1018) with group 'user32' ...

Creating home directory '/home/user32' ...

Copying files from '/etc/skel' ...

New password:

Retype new password:

Retype new password updated successfully

Changing the user information for user32

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

nipun@LAPTOP-1HNTD447:/$ cat /etc/group

root:x:0:

daemon:x:1:
bin:x:2:

sys:x:3:
adm:x:4:syslog, nipun

tty:x:5:syslog

disk:x:6:
|p:x:7:
nail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
```

```
onipun@LAPTOP-1HNTD447:/
systemd-timesync:x:104:
crontab:x:105:
messagebus:x:106:
input:x:107:
kvm:x:108:
render:x:100:
syslog:x:110:
tss:x:111:
uuidd:x:112:
tcpdump:x:113:
ssh:x:114:
landscape:x:115:
admin:x:116:
admin:x:116:
netdev:x:117:nipun
lxd:x:118:
nipun:x:1000:
newuser:x:1001:
new_group:x:1001:
user1:x:1003:
user2:x:1004:
user3:x:1005:
user4:x:1006:
docker:x:1007:nipun
timjag:x:1008:
berry:x:1009:
devops:x:1010:berry
zing1:x:1011:
zing2:x:1012:
hash1:x:1013:
hash2:x:1014:
 a:x:1015:
user32:x:1016:
   ipun@LAPTOP-1HNTD447:/$ _
```

```
a:x:1015:
user32:x:1016:
nipun@LAPTOP-1HNTD447:/$ groupadd
Usage: groupadd [options] GROUP
Options:
                                              exit successfully if the group already exists,
                                              and cancel -g if the GID is already used
use GID for the new group
display this help message and exit
override /etc/login.defs defaults
   -g, --gid GID
-h, --help
   -K, --key KEY=VALUE
   -o, --non-unique
                                              allow to create groups with duplicate
                                               (non-unique) GID
  -p, --password PASSWORD
                                              use this encrypted password for the new group create a system account
   -r, --system
   -R, --root CHROOT_DIR
-P, --prefix PREFIX_DIR
                                              directory to chroot into
                                             directory prefix
Use the extra users database
        --extrausers
  ipun@LAPTOP-1HNTD447:/$ groupmod
Usage: groupmod [options] GROUP
Options:
   -g, --gid GID
-h, --help
                                              change the group ID to GID
                                              display this help message and exit
                                              change the name to NEW_GROUP
allow to use a duplicate (non-unique) GID
change the password to this (encrypted)
   -n, --new-name NEW_GROUP
  -o, --non-unique
-p, --password PASSWORD
                                              PASSWORD
                                              directory to chroot into prefix directory where are located the /etc/* files
   -R, --root CHROOT_DIR
-P, --prefix PREFIX_DIR
  ipun@LAPTOP-1HNTD447:/$
```

```
ipun@LAPTOP-1HNTD447:/$ cd
ipun@LAPTOP-1HNTD447:~$ usermod
 Jsage: usermod [options] LOGIN
Options:
   -b, --badnames
                                                      allow bad names
  -c, --comment COMMENT
                                                    new value of the GECOS field
new home directory for the user account
set account expiration date to EXPIRE_DATE
  -d, --home HOME_DIR
   -e, --expiredate EXPIRE_DATE
   -f, --inactive INACTIVE
                                                      set password inactive after expiration
                                                     to INACTIVE
force use GROUP as new primary group
new list of supplementary GROUPS
   -g, --gid GROUP
-G, --groups GROUPS
-a, --append
                                                      append the user to the supplemental GROUPS
                                                      mentioned by the -G option without removing
                                                     the user from other groups
display this help message and exit
new value of the login name
   -h. --help
   -1, --login NEW_LOGIN
   -L, --lock
                                                      lock the user account
                                                     move contents of the home directory to the
new location (use only with -d)
allow using duplicate (non-unique) UID
use encrypted password for the new password
   -m, --move-home
   -o, --non-unique
    -p, --password PASSWORD
                                                     directory to chroot into prefix directory where are located the /etc/* files new login shell for the user account new UID for the user account
   -R, --root CHROOT_DIR
-P, --prefix PREFIX_DIR
-s, --shell SHELL
   -u, --uid UID
   -U, --unlock
                                                      unlock the user account
   -v, --add-subuids FIRST-LAST add range of subordinate uids
-v, --del-subuids FIRST-LAST remove range of subordinate uids
-w, --add-subgids FIRST-LAST add range of subordinate gids
                                                     remove range of subordinate gids
new SELinux user mapping for the user account
    -W, --del-subgids FIRST-LAST
         --selinux-user SEUSER
```

nipun@LAPTOP-1HNTD447:~\$ sudo groupadd training nipun@LAPTOP-1HNTD447:~\$ cat /etc/grps

```
tss:x:111:
uuidd:x:112:
tcpdump:x:113:
ssh:x:114:
landscape:x:115:
admin:x:116:
netdev:x:117:nipun
lxd:x:118:
nipun:x:1000:
newuser:x:1001:
new_group:x:1002:
user1:x:1003:
user2:x:1004:
user3:x:1005:
user4:x:1006:
docker:x:1007:nipun
timjag:x:1008:
berry:x:1009:
devops:x:1010:berry
zing1:x:1011:
zing2:x:1012:
hash1:x:1013:
a:x:1015:
user32:x:1016:
training:x:1017:
 ipun@LAPTOP-1HNTD447:~$
```

```
### April National Control of the Provided Proposition of the Proposition of the Provided Proposition of the Proposition of the Proposition of the Provided Proposition of the Proposition of the Provided Proposition of the Proposition of the Provided Prop
```

```
ipun@LAPTOP-1HNTD447:
a.txt b.txt combo.txt new.txt subfolder
nipun@LAPTOP-1HNTD447:-/folder1$ rm new.txt
nipun@LAPTOP-1HNTD447:-/folder1$ ls
a.txt b.txt combo.txt subfolder temp
nipun@LAPTOP-1HNTD447:~/folder1$ find . -name "*.*"
 ./combo.txt
./a.txt
./b.txt
  ipun@LAPTOP-1HNTD447:~/folder1$ find . -name "*.txt*"
 ./combo.txt
./b.txt
 nipun@LAPTOP-1HNTD447:-/folder1$ find . -name "a.txt" -deletenipun@LAPTOP-1HNTD447:-/folder1$ ls
b.txt combo.txt subfolder temp
nipun@LAPTOP-1HNTD447:~/folder1$ free
                                      used free
70776 7117800
               total
12967604
                                                                      shared buff/cache available
Mem:
                                  1770776
                                                   7117800
Swap: 4194304 0 419
nipun@LAPTOP-1HNTD447:~/folder1$ uptme
                                                   4194304
Command 'uptme' not found, did you mean:
  command 'uptime' from deb procps (2:3.3.16-1ubuntu2.3)
Try: sudo apt install <deb name>
nipun@LAPTOP-1HNTD447:~/folder1$ uptime
17:20:14 up 7:17, 0 users, load average: 0.11, 0.09, 0.08
nipun@LAPTOP-1HNTD447:~/folder1$ _
```

```
$ python
Python 3.8.10 (default, Jun 2 2021, 10:49:15)

[GCC 9.4.0] on linux

Type "help", "copyright", "credits" or "license" for more information.

>>> a = 10
>>> if (a>5):
 >> i+ (a>>):
..     print("yes')
File "<stdin>", line 2
    print("yes')
^
SyntaxError: EOL while scanning string literal
         print("yes")
 .. pr
.. else:
 .. print("no")
ves
>>> a = [3,56,75634,43,52]
>>> a[4]
>>> a[0]
>>> name = input("Enter name:")
Enter name:nipun
>>> print(name)
nipun
>>> from math import *
>>> print(sqrt(2))
1.4142135623730951
 >>> print(pow(2,3))
```

```
>>> def calc(n):
       if(n>100):
               print(n*n)
       else:
               print(n+n)
>>> calc(200)
40000
>>> calc(40)
80
>>>
nipun@LAPTOP-1HNTD447:~$ python
Python 3.8.10 (default, Jun 2 2021, 10:49:15)
[GCC 9.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> class product:
        def setProduct(self,name,price,qty):
                self.name = name
                self.price = price
                self.qty = qty
        def getProduct(self):
                print(self.name, self.price, self.qty)
>>> item = product()
>>> item.setProduct('juice',5,2)
>>> item.getProduct()
juice 5 2
>>> f = open("//home//nipun//lemon.txt")
>>> print(f)
```

```
_io.TextIOWrapper name='//home//nipun//lemon.txt' mode='r' encoding='UTF-8'>
```

```
Ompositation-HMTD447:-/folder1 top
top - 17:23:48 up 7:21, 0 users, load average: 0.01, 0.07, 0.08
Tasks: 11 total, 1 running, 9 sleeping, 1 stopped, 0 zombie
%Cpu(s): 0.3 us, 0.3 sy, 0.0 ni, 99.2 id, 0.0 wa, 0.0 hi, 0.1 si, 0.0 st
MiB Mem : 12663.7 total, 6769.2 free, 1729.1 used, 4165.4 buff/cache
MiB Swap: 4096.0 total, 4096.0 free, 0.0 used. 10259.4 avail Mem
                                                                                                                                                                    TIME+ COMMAND
    PID USER
                                         PR NI
                                                                   VIRT
                                                                                       RES
                                                                                                          SHR S %CPU %MEM
                                                                                                                                                              0:02.37 init
0:00.00 init
0:00.02 init
0:02.80 docker-desktop-
                                         20
20
20
                                                                                                                               0.0
0.0
0.0
     1 root
113 root
                                                                    1024
                                                                                                    468 S
20 S
20 S
13176 S
20 S
29312 S
20 S
20 S
3404 S
3812 T
3128 R
                                                                                                           468
                                                                      908
                                                                                           84
      114 root
                                                                                                                                               0.0
                                                     0 1680260
0 908
0 765032
0 908
     115 root
125 root
126 nipun
                                                                                                                                              0.3
0.0
0.4
                                         20
20
20
20
20
20
20
                                                                                                                                                              0:02.80 docker
0:00.00 init
0:02.53 docker
0:00.00 init
0:00.39 init
0:00.36 bash
0:00.00 sudo
0:00.00 top
                                                                                                                               0.0
                                                                                         92
                                                                                    47988
                                                                                                                                              0.0
     865 root
                                                                                          84
                                                                      908
     867 nipun
                                                                                     5724
4264
                                                                                                                                              0.0
0.0
                                                      0 0 0
                                                                                                                               0.0
                                                                 10640
 11919 root
12410 nipun
                                                                 10520
                                          20
                                                                 10884
                                                                                      3656
                                                                                                                               0.0
```

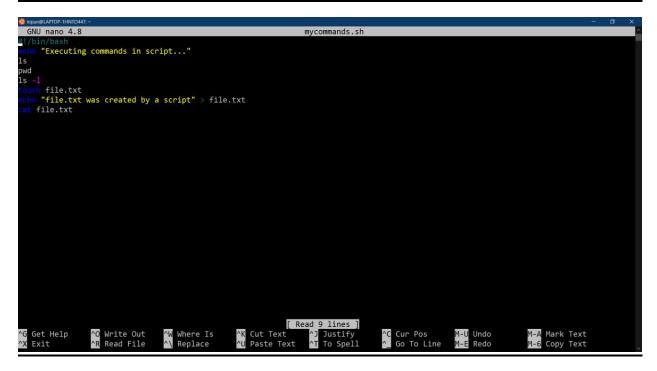
Htop cmd



```
ipun@LAPTOP-1HNTD447:-/folder1$ last
 wtmp begins Fri Dec 3 14:19:11 2021
nipun@LAPTOP-1HNTD447:~/folder1$ ps
       PID TTY
                                                                      TIME CMD
       867 pts/2
                                                         00:00:00 bash
   12414 pts/2
                                                        00:00:00 ps
      ipun@LAPTOP-1HNTD447:
                                                                                                    lder1$ info
   [2]+ Stopped
                                                                                                                  info
       ipun@LAPTOP-1HNTD447:~/folder1$ env
  SHELL=/bin/bash
 WSL_DISTRO_NAME=Ubuntu-20.04
NAME=LAPTOP-1HNTD447
     PWD=/home/nipun/folder1
   LOGNAME=nipun
     HOME=/home/nipun
 LANG=C.UTF-8
   WSL_INTEROP=/run/WSL/866_interop
   LS_COLORS=rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33;01:cd=40;33;01:or=40;31;01:mi=00:su=37;41:sg=30;43:ca=30;41:
LS_COLORS=rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33;01:cd=40;33;01:cn=40;31;01:mi=00:su=37;41:sg=30;43:ca=30;41:tw=30;42:ow=34;42:st=37;44:ex=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=01;31:*.ta=
   =00;36:*.xspf=00;36:
 LESSCLOSE=/usr/bin/lesspipe %s %s
  TERM=xterm-256color
```

```
ilesystem
                1K-blocks
                                 Used Available Use% Mounted on
                              1925308 247810748
/dev/sdd
                263174212
                                                    1% /
                              373264 6110536
4507380 245228676
                  6483800
                                                     6% /mnt/wsl
tmpfs
                263174212
.
/dev/sdc
                                                     2% /mnt/wsl/docker-desktop-data/isocache
one
                  6483800
                                        6483788
                                                     1% /mnt/wsl/docker-desktop/shared-sockets/host-services
/dev/sdb
                               124948 249611108
                                               108  1% /mnt/wsl/docker-desktop/docker-desktop-proxy
0  100% /mnt/wsl/docker-desktop/cli-tools
                263174212
                               342106
/dev/loop0
                   342106
tools
                498952516 364319000 134633516 74% /init
                   6481716
                                         6481716
                                                    0% /dev
                                                    1% /run
0% /run/lock
 one
                   6483800
                                         6483788
                   6483800
                                     0
                                         6483800
one
                                         6483800
                                                     0% /run/shm
                   6483800
ione
none
                   6483800
                                          6483800
                                                     0% /run/user
tmpfs
                  6483800
                                         6483800
                                                    0% /sys/fs/cgroup
                498952516 364319000 134633516
                                                   74% /usr/lib/wsl/drivers
drivers
lib
                498952516 364319000 134633516
498952516 364319000 134633516
                                                   74% /usr/lib/wsl/lib
                419745144 263160380 156584764 63% /mnt/d
 ipun@LAPTOP-1HNTD447:~/folder1$ _
```

```
419745144 263160380 156584764 63% /mnt/d
 /bin/bash
 ipun@LAPTOP-1HNTD447:~/folder1$ cd ,,
-bash: cd: ,; No such file or directory
nipun@LAPTOP-1HNTD447:~/folder1$ cd ..
nipun@LAPTOP-1HNTD447:~$ 1s
                  array.sh
banana.txt
                                                                        lime.txt
mix.txt
                                                  homecontents.txt mycommands.sh
                                                                                                new.sh.save people.txt
allcontent.txt employees.txt hello.txt lemon.txt
                                                                        myfileswithvars.sh new.txt
nipun@LAPTOP-1HNTD447:~$ ./name.sh
Welcome to shell scripting
AbcImpex
                                                                                                               nipun_playbook shscripts
parent test2
people.txt world
               array.sh
banana.txt
                                                                        lime.txt
                                                                                                name.sh
                                                                                                new.sh.save
Hashmum
                                     folder1
                                                  hobsdir
                                                                        mix.txt
cat git_test homecontent
allcontent.txt employees.txt hello.txt lemon.txt
Xa Kochi
                                                  homecontents.txt
                                                                        mycommands.sh
                                                                        myfileswithvars.sh new.txt
                                                                                                                practice
Yes
./name.sh: line 13: q: command not found nipun@LAPTOP-1HNTD447:-$ cat ./mycommands.sh
#!/bin/bash
echo "Executing commands in script..."
pwd
ls -l
touch file.txt
echo "file.txt was created by a script" > file.txt
cat file.txt
nipun@LAPTOP-1HNTD447:-$
```



```
ipun@LAPTOP-1HNTD447:~$ ls
                                            file.txt hello2.txt
                                                                                     lime.txt
                      arrav.sh
                      banana.txt
                                                           homecontents.txt mycommands.sh new.sh.s
lemon.txt myfileswithvars.sh new.txt
                                                                                                                  new.sh.save people.txt
allcontent.txt employees.txt hello.txt lemon.txt
nipun@LAPTOP-1HNTD447:~$ nano myfileswithvars.sh
nipun@LAPTOP-1HNTD447:~$ cat array.sh
 ! /bin/bash
# To declare static Array
arr=(prakhar ankit 1 rishabh manish abhinav)
# To print all elements of array
echo ${arr[@]}
echo ${arr[*]}
for item in "${arr[@]}"
                      echo $item
          done
 ipun@LAPTOP-1HNTD447:~$ ./array.sh
prakhar ankit 1 rishabh manish abhinav
prakhar ankit 1 rishabh manish abhinav
prakhar
rishabh
 nanish
abhinav
nipun@LAPTOP-1HNTD447:~$
```

```
nipun@LAPTOP-1HNTD447:~$ nano input.sh
nipun@LAPTOP-1HNTD447:~$ chmod +x input.sh
nipun@LAPTOP-1HNTD447:~$ ./input.sh
Enter your name here:
nipun
Hello nipun, it is nice to meet you!
```

```
hipun@LAPTOP-1HNTD447:~$ cat .bash_aliases
alias lh='ls -h'
alias la='ls -a'
alias ll='ls -l'
alias hello='echo hello'
alias python='python3'
alias py='python3'
nipun@LAPTOP-1HNTD447:~$ py
Python 3.8.10 (default, Jun 2 2021, 10:49:15)
[GCC 9.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
```

```
nipun@LAPTOP-1HNTD447:~$ nano hello.sh
nipun@LAPTOP-1HNTD447:~$ chmod +x hello.sh
nipun@LAPTOP-1HNTD447:~$ ./hello.sh
./hello.sh: line 7: syntax error: unexpected end of file
nipun@LAPTOP-1HNTD447:~$ nano hello.sh
nipun@LAPTOP-1HNTD447:~$ ./hello.sh
Hello
nipun@LAPTOP-1HNTD447:~$ cat hello.sh
#!/bin/bash
hello(){
       echo "Hello"
hello
nipun@LAPTOP-1HNTD447:~$ nano hello.sh
nipun@LAPTOP-1HNTD447:~$ cat hello.sh
#!/bin/bash
hello(){
         echo Hello $1
hello $1
nipun@LAPTOP-1HNTD447:~$ ./hello.sh Tom
Hello Tom
nipun@LAPTOP-1HNTD447:~$ bash -x ./hello.sh
+ hello
+ echo Hello
Hello
```