

NAME:- Bikramaditya Munshi

Roll Number:- 2105538

1. 

```
kiit@BT-2105538:~$ pwd
/home/kiit
```
2. 

```
kiit@BT-2105538:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos clanguage pclab thinclient_drives
```
3. 

```
kiit@BT-2105538:~/thinclient_drives$ cd
kiit@BT-2105538:~$ cd Documents
```
4. 

```
kiit@BT-2105538:~/Documents$ mkdir python
kiit@BT-2105538:~/Documents$ ls
06_01_22 09_12_21 13_12_2021 18_12_21 25_11_21 8_11_21  pattern  python  strings
06_12_21 11_11_21 16_12_21  1_11_21 29_11_21  functions pointers recursive structures
```
5. 

```
kiit@BT-2105538:~/Documents/python$ rmdir temp
kiit@BT-2105538:~/Documents/python$ touch temp temp1
kiit@BT-2105538:~/Documents/python$ ls
temp temp1
```
6. 

```
kiit@BT-2105538:~/Documents/python$ cat> temp.txt
this is a temorary file to test the cat command
1
2
3
4
5
6
```
7. 

```
kiit@BT-2105538:~/Documents/python$ head temp.txt
this is a temorary file to test the cat command
1
2
3
4
5
6
```
8. 

```
kiit@BT-2105538:~/Documents/python$ tail temp.txt
this is a temorary file to test the cat command
1
2
3
4
5
6
```
9. 

```
kiit@BT-2105538:~/Documents/python$ tail temp.txt
this is a temorary file to test the cat command
1
2
3
4
5
6
```

```
kiit@BT-2105538:~/Documents/python$ tac temp.txt
6
5
4
3
2
1
10. this is a temorary file to test the cat command
```

```
kiit@BT-2105538:~/Documents/python$ more temp.txt
this is a temorary file to test the cat command
1
2
3
4
5
6
11.
```

```
kiit@BT-2105538:~/Documents/python$ cat --help
Usage: cat [OPTION]... [FILE]...
Concatenate FILE(s) to standard output.

With no FILE, or when FILE is -, read standard input.

-A, --show-all           equivalent to -vET
-b, --number-nonblank     number nonempty output lines, overrides -n
-e                        equivalent to -vE
-E, --show-ends           display $ at end of each line
-n, --number              number all output lines
-s, --squeeze-blank       suppress repeated empty output lines
-t                        equivalent to -vT
-T, --show-tabs           display TAB characters as ^I
-u                        (ignored)
-v, --show-nonprinting    use ^ and M- notation, except for LFD and TAB
--help                   display this help and exit
--version                 output version information and exit

Examples:
  cat f - g  Output f's contents, then standard input, then g's contents.
  cat        Copy standard input to standard output.

GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
Report cat translation bugs to <https://translationproject.org/team/>
Full documentation at: <https://www.gnu.org/software/coreutils/cat>
12. or available locally via: info '(coreutils) cat invocation'
```

```
kiit@BT-2105538:~/Documents/python$ more --help
```

Usage:

more [options] <file>...

A file perusal filter for CRT viewing.

Options:

-d display help instead of ringing bell  
-f count logical rather than screen lines  
-l suppress pause after form feed  
-c do not scroll, display text and clean line ends  
-p do not scroll, clean screen and display text  
-s squeeze multiple blank lines into one  
-u suppress underlining  
-<number> the number of lines per screenful  
+<number> display file beginning from line number  
+<string> display file beginning from search string match  
  
--help display this help  
-V, --version display version

13. For more details see more(1).

```
kiit@BT-2105538:~/Documents/python$ help
GNU bash, version 5.0.17(1)-release (x86_64-pc-linux-gnu)
These shell commands are defined internally. Type 'help' to see this list.
Type 'help name' to find out more about the function 'name'.
Use 'info bash' to find out more about the shell in general.
Use 'man -k' or 'info' to find out more about commands not in this list.

A star (*) next to a name means that the command is disabled.

job_spec [&]
(( expression ))
. filename [arguments]
:
[ arg... ]
[[ expression ]]
alias [-p] [name=value] ... ]
bg [job_spec ...]
bind [-lpsvPSVX] [-m keymap] [-f filename] [-q name] [-u name] >
break [n]
builtin [shell-builtin [arg ...]]
caller [expr]
case WORD in [PATTERN] [...] COMMANDS ;;)... esac
cd [-L][-P][-e] [-@] [dir]
command [-pVv] command [arg ...]
compgen [-abcdefgjkuv] [-o option] [-A action] [-G globpat] [->
complete [-abcdefgjkuv] [-pr] [-DEI] [-o option] [-A action] [->
compgopt [-o] [+o option] [-DEI] [name ...]
continue [n]
coproc [NAME] command [redirections]
declare [-aAffgilnrtux] [-p] [name=value] ...]
dirs [-clpv] [+N] [-N]
disown [-h] [-ar] [jobspec ... | pid ...]

history [-c] [-d offset] [n] or history -anrw [filename] or hi>
if COMMANDS; then COMMANDS; [ elif COMMANDS; then COMMANDS; ].>
jobs [-lnprs] [jobspec ...] or jobs -x command [args]
kill [-s sigspec | -n signum | -sigspec] pid | jobspec ... or >
let arg [arg ...]
local [option] name[=value] ...
logout [n]
mapfile [-d delim] [-n count] [-O origin] [-s count] [-t] [-u >
popd [-n] [+N | -N]
printf [-v var] format [arguments]
pushd [-n] [+N | -N | dir]
pwd [-LP]
read [-ers] [-a array] [-d delim] [-i text] [-n nchars] [-N nc>
readarray [-d delim] [-n count] [-O origin] [-s count] [-t] [->
readonly [-aAf] [name[=value] ...] or readonly -p
return [n]
select NAME [in WORDS ... ;] do COMMANDS; done
set [-abefhkmnptuvxBCHP] [-o option-name] [--] [arg ...]
shift [n]
shopt [-pqsu] [-o] [optname ...]
source filename [arguments]
suspend [-f]
test [expr]
```

- 14.

```
kiit@BT-2105538:~/Documents/python$ rm temp
```

- 15.

```
kiit@BT-2105538:~/Documents/python$ rm temp1
```

```

kiit@BT-2105538:~/Documents/python$ sudo -h
sudo - execute a command as another user

usage: sudo -h | -K | -k | -V
usage: sudo -v [-AknS] [-g group] [-h host] [-p prompt] [-u user]
usage: sudo -l [-AknS] [-g group] [-h host] [-p prompt] [-U user] [-u user] [command]
usage: sudo [-AbEHknPS] [-r role] [-t type] [-C num] [-g group] [-h host] [-p prompt] [-T timeout] [-u user] [VAR=value] [-i|-s]
[<command>]
usage: sudo -e [-AknS] [-r role] [-t type] [-C num] [-g group] [-h host] [-p prompt] [-T timeout] [-u user] file ...

Options:
-A, --askpass          use a helper program for password prompting
-b, --background      run command in the background
-B, --bell            ring bell when prompting
-C, --close-from=num   close all file descriptors >= num
-E, --preserve-env     preserve user environment when running command
--preserve-env=list    preserve specific environment variables
-e, --edit            edit files instead of running a command
-g, --group=group      run command as the specified group name or ID
-H, --set-home         set HOME variable to target user's home dir
-h, --help            display help message and exit
-i, --host=host        run command on host (if supported by plugin)
-i, --login            run login shell as the target user; a command may also be specified
-K, --remove-timestamp remove timestamp file completely
-k, --reset-timestamp invalidate timestamp file
-l, --list            list user's privileges or check a specific command; use twice for longer format
-n, --non-interactive non-interactive mode, no prompts are used
-P, --preserve-groups  preserve group vector instead of setting to target's
-p, --prompt=prompt    use the specified password prompt
-r, --role=role        create SELinux security context with specified role
-S, --stdin            read password from standard input

```

16. kiit@BT-2105538:~/Documents/python\$ cp temp.txt /home/kiit/Documents

17. kiit@BT-2105538:~/Documents/python\$ mv temp.txt /home/kiit/Downloads

18. kiit@BT-2105538:~/Documents\$ mv temp.txt /home/kiit/Downloads

19. kiit@BT-2105538:~/Documents\$ sudo apt install mlocate

20. kiit@BT-2105538:~\$ sudo kill 145

21. kiit@BT-2105538:~\$ find /home Documents

22. kiit@BT-2105538:~/Documents/python\$ grep 2 temp.txt

23. kiit@BT-2105538:~/Documents/python\$ df -h

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/sdc	251G	2.7G	236G	2%	/
none	3.8G	80K	3.8G	1%	/mnt/wslg
none	3.8G	4.0K	3.8G	1%	/mnt/wsl
tools	476G	266G	210G	56%	/init
none	3.8G	0	3.8G	0%	/dev
none	3.8G	4.0K	3.8G	1%	/run
none	3.8G	0	3.8G	0%	/run/lock
none	3.8G	0	3.8G	0%	/run/shm
none	3.8G	0	3.8G	0%	/run/user
tmpfs	3.8G	0	3.8G	0%	/sys/fs/cgroup
none	3.8G	76K	3.8G	1%	/mnt/wslg/versions.txt
none	3.8G	76K	3.8G	1%	/mnt/wslg/doc
drivers	476G	266G	210G	56%	/usr/lib/wsl/drivers
lib	476G	266G	210G	56%	/usr/lib/wsl/lib
drvfs	476G	266G	210G	56%	/mnt/c



```
kiit@BT-2105538:~/Documents/python$ df -m
Filesystem      1M-blocks    Used Available Use% Mounted on
/dev/sdc         257007      2721    241163    2% /
none             3809         1      3809     1% /mnt/wslg
none             3809         1      3809     1% /mnt/wsl
tools           487109  272120    214990    56% /init
none            3807         0      3807     0% /dev
none            3809         1      3809     1% /run
none            3809         0      3809     0% /run/lock
none            3809         0      3809     0% /run/shm
none            3809         0      3809     0% /run/user
tmpfs           3809         0      3809     0% /sys/fs/cgroup
none            3809         1      3809     1% /mnt/wslg/versions.tx
none            3809         1      3809     1% /mnt/wslg/doc
drivers         487109  272120    214990    56% /usr/lib/wsl/drivers
lib             487109  272120    214990    56% /usr/lib/wsl/lib
24. drvfs        487109  272120    214990    56% /mnt/c
```

```
kiit@BT-2105538:~/Documents/python$ df -k
Filesystem      1K-blocks    Used Available Use% Mounted on
/dev/sdc        263174212    2786060  246949996    2% /
none            3900052         80   38999972    1% /mnt/wslg
none            3900052          4   39000048    1% /mnt/wsl
tools          498799612  278649248  220150364    56% /init
none           3897620          0   3897620     0% /dev
none           3900052          4   39000048    1% /run
none           3900052          0   39000052    0% /run/lock
none           3900052          0   39000052    0% /run/shm
none           3900052          0   39000052    0% /run/user
tmpfs           3900052          0   39000052    0% /sys/fs/cgroup
none           3900052         76   38999976    1% /mnt/wslg/versions.tx
none           3900052         76   38999976    1% /mnt/wslg/doc
drivers         498799612  278649248  220150364    56% /usr/lib/wsl/drivers
lib             498799612  278649248  220150364    56% /usr/lib/wsl/lib
25. drvfs        498799612  278649248  220150364    56% /mnt/c
```

```
kiit@BT-2105538:~/Documents/python$ df -T
Filesystem      Type      1K-blocks    Used Available Use% Mounted on
/dev/sdc        ext4      263174212    2786588  246949468    2% /
none            tmpfs     3900052         80   38999972    1% /mnt/wslg
none            tmpfs     3900052          4   39000048    1% /mnt/wsl
tools           9p        498799612  278649752  220149860    56% /init
none            devtmpfs  3897620          0   3897620     0% /dev
none            tmpfs     3900052          4   39000048    1% /run
none            tmpfs     3900052          0   39000052    0% /run/lock
none            tmpfs     3900052          0   39000052    0% /run/shm
none            tmpfs     3900052          0   39000052    0% /run/user
tmpfs           tmpfs     3900052          0   39000052    0% /sys/fs/cgroup
none            overlay   3900052         76   38999976    1% /mnt/wslg/versions.tx
none            overlay   3900052         76   38999976    1% /mnt/wslg/doc
drivers         9p        498799612  278649752  220149860    56% /usr/lib/wsl/drivers
lib             9p        498799612  278649752  220149860    56% /usr/lib/wsl/lib
26. drvfs        9p        498799612  278649752  220149860    56% /mnt/c
```

```
kiit@BT-2105538:~/Documents/python$ du -s
12 .
```

```
27. kiit@BT-2105538:~/Documents/python$ du -m
```

```
28. 1 .
```

```

kiit@BT-2105538:~/Documents/python$ du -k
12
.
29. kiit@BT-2105538:~/Documents/python$ du -h
30. 12K
.
kiit@BT-2105538:~/Documents/python$ df temp.txt temp1.txt
Filesystem      1K-blocks    Used Available Use% Mounted on
/dev/sdc         263174212  2794456  246941600   2% /
/dev/sdc         263174212  2794456  246941600   2% /
31. kiit@BT-2105538:~/Documents/python$ diff -c temp.txt temp1.txt
32. kiit@BT-2105538:~/Documents/python$ diff -u temp.txt temp1.txt
33. kiit@BT-2105538:~/Documents/python$ tar --help
34.
ubuntu@ubuntu:~$ xdg-open .config/BraveSoftware
35.
ubuntu@ubuntu:~$ date
36. Thu Jan 12 22:38:02 IST 2023
ubuntu@ubuntu:~$ echo I am Bikramaditya Munshi
I am Bikramaditya Munshi
37.
ubuntu@ubuntu:~/Desktop$ wc temp.txt
1  4 25 temp.txt
38.
ubuntu@ubuntu:~/Desktop$ wc -l temp.txt
1 temp.txt
39.
ubuntu@ubuntu:~/Desktop$ wc -c temp.txt
25 temp.txt
40.
ubuntu@ubuntu:~/Desktop$ wc -w temp.txt
4 temp.txt
41.
ubuntu@ubuntu:~/Desktop$ time

real    0m0.000s
user    0m0.000s
sys     0m0.000s
42. sys     0m0.000s
ubuntu@ubuntu:~/Desktop$ times
0m0.112s 0m0.096s
0m0.015s 0m0.089s
43. ubuntu@ubuntu:~/Desktop$ pwd

```

```
sed: command not found
ubuntu@ubuntu:~/Desktop$ od -t x1 temp.txt
00000000 49 20 61 6d 20 42 69 6b 72 61 6d 61 64 69 74 79
00000020 61 20 4d 75 6e 73 68 69 0a
00000031
44. ubuntu@ubuntu:~/Desktop$ rm new.txt
ubuntu@ubuntu:~/Desktop$ sort temp.txt
I am Bikramaditya Munshi
45. ubuntu@ubuntu:~/Desktop$ gzip temp.txt
ubuntu@ubuntu:~/Desktop$ ls
temp.txt  ubiquity.desktop
46. ubuntu@ubuntu:~/Desktop$ gunzip temp.txt
ubuntu@ubuntu:~/Desktop$ ls
temp.txt  ubiquity.desktop
47. ubuntu@ubuntu:~/Desktop$ find . -name "*.txt"
./temp.txt
48. ubuntu@ubuntu:~/Desktop$ man cd
No manual entry for cd
49. ubuntu@ubuntu:~/Desktop$
ubuntu@ubuntu:~$ host amazon.in
amazon.in has address 54.239.33.92
amazon.in has address 52.95.120.67
amazon.in has address 52.95.116.115
amazon.in has IPv6 address 64:ff9b::345f:7473
amazon.in has IPv6 address 64:ff9b::36ef:215c
amazon.in has IPv6 address 64:ff9b::345f:7843
amazon.in mail is handled by 10 amazon-smtp.amazon.com.
50. ubuntu@ubuntu:~$
```