



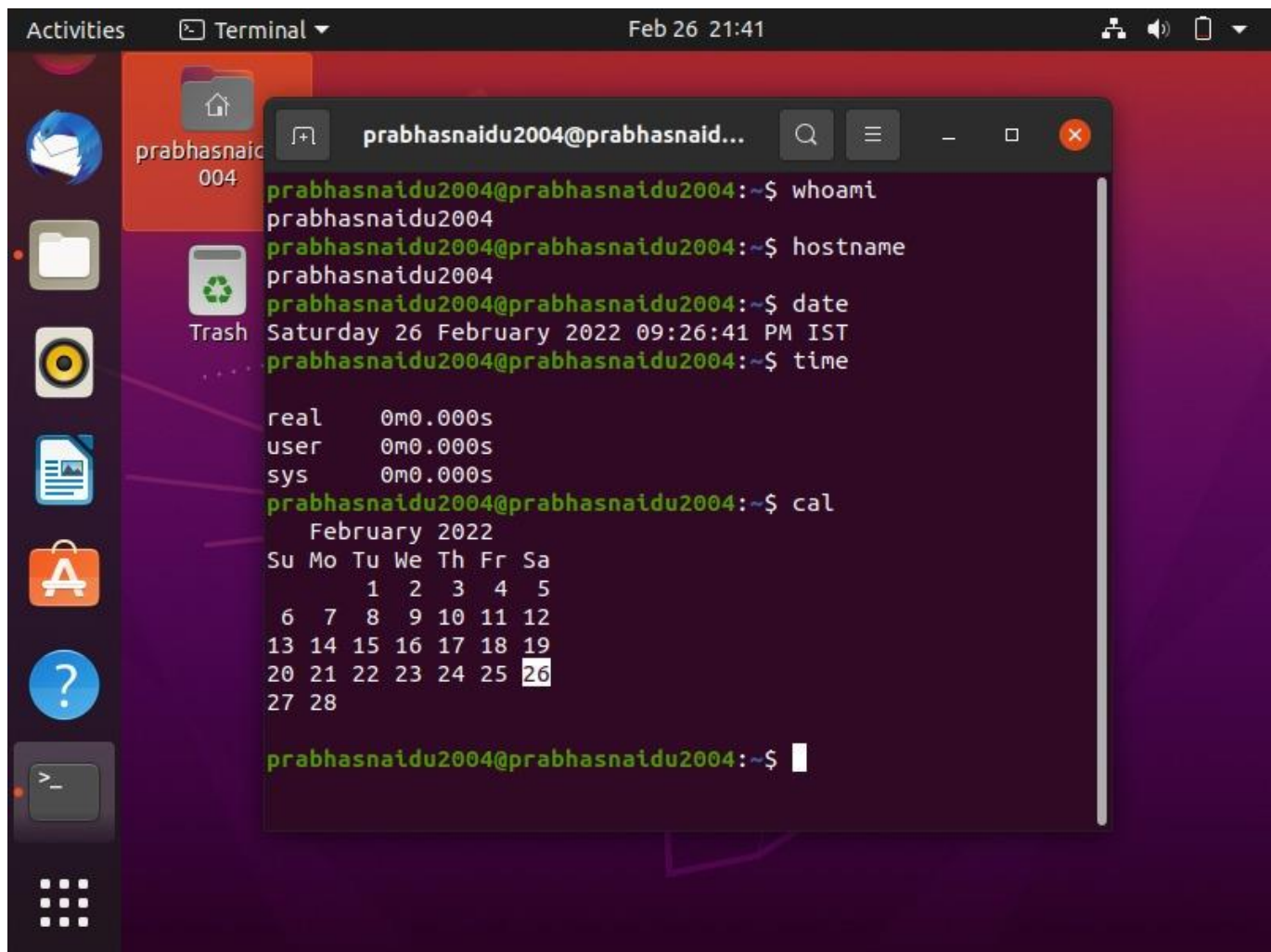
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SECTION CSE – AIE (A1)

Basic Linux Commands

1. *whoami*
2. *hostname*
3. *date*
4. *time*
5. *cal*



The screenshot shows a Linux desktop environment with a terminal window open. The terminal window title is "prabhasnaidu2004@prabhasnaid...". The terminal output shows the following commands and their results:

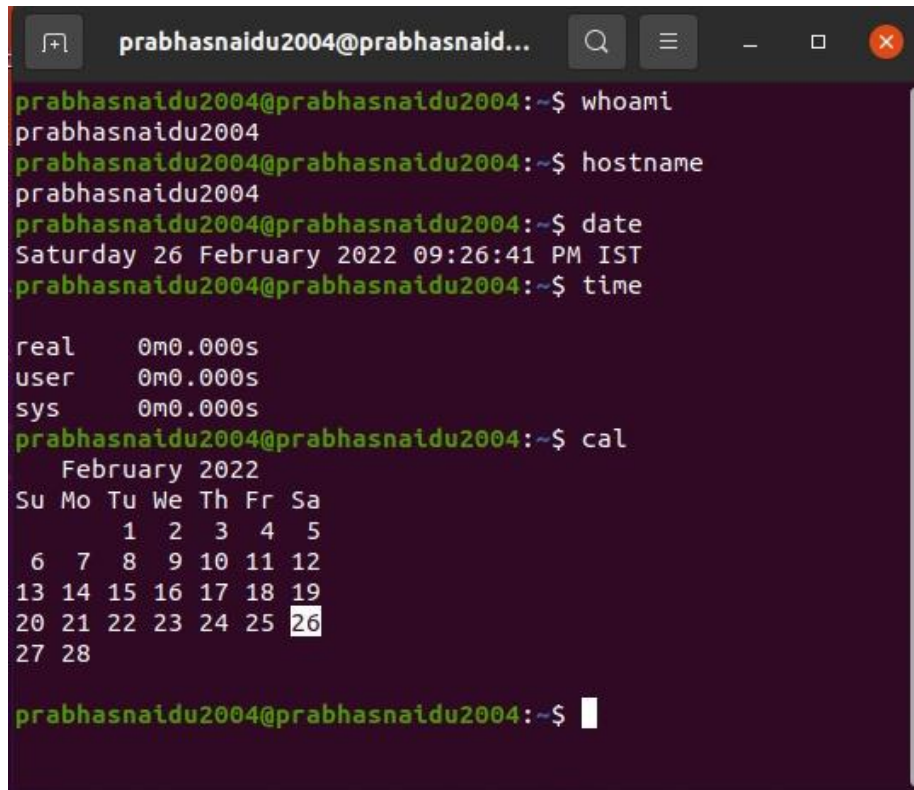
```
prabhasnaidu2004@prabhasnaidu2004:~$ whoami
prabhasnaidu2004
prabhasnaidu2004@prabhasnaidu2004:~$ hostname
prabhasnaidu2004
prabhasnaidu2004@prabhasnaidu2004:~$ date
Saturday 26 February 2022 09:26:41 PM IST
prabhasnaidu2004@prabhasnaidu2004:~$ time

real    0m0.000s
user    0m0.000s
sys     0m0.000s
prabhasnaidu2004@prabhasnaidu2004:~$ cal
February 2022
Su Mo Tu We Th Fr Sa
      1  2  3  4  5
 6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28
```

The terminal window is titled "prabhasnaidu2004@prabhasnaid...". The terminal output shows the following commands and their results:

6. clear

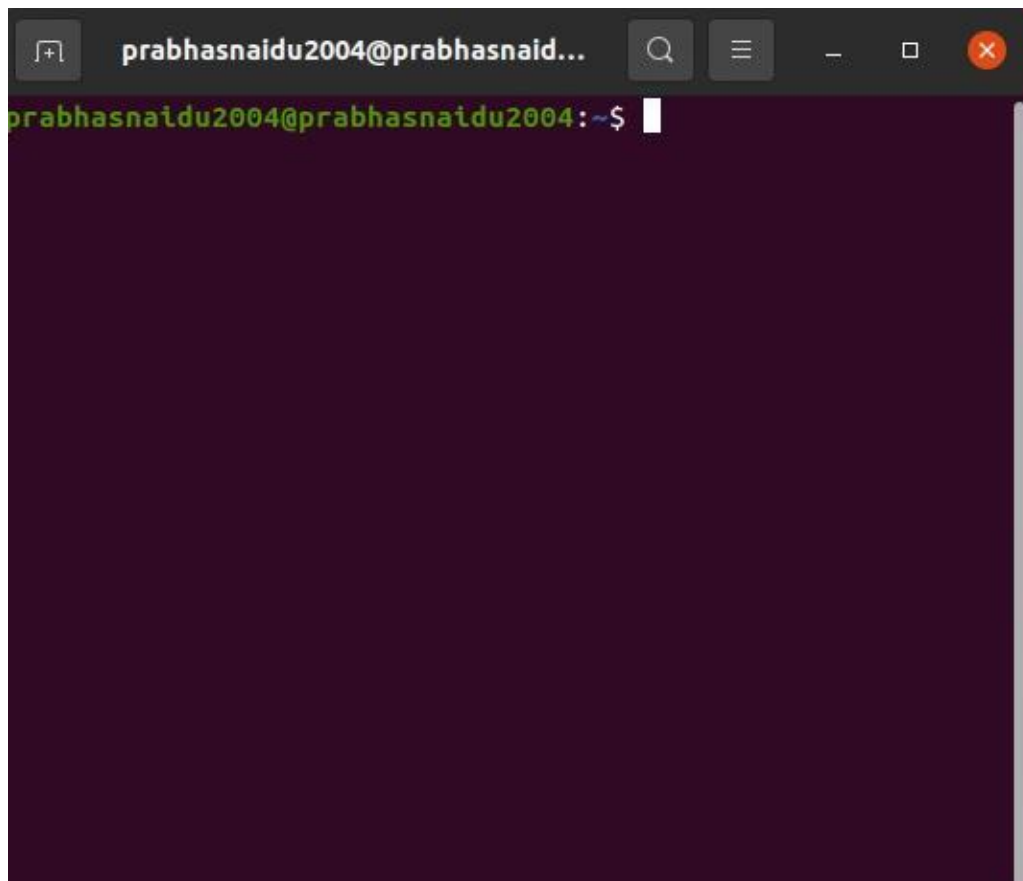
a. before



```
prabhasnaidu2004@prabhasnaidu2004:~$ whoami
prabhasnaidu2004
prabhasnaidu2004@prabhasnaidu2004:~$ hostname
prabhasnaidu2004
prabhasnaidu2004@prabhasnaidu2004:~$ date
Saturday 26 February 2022 09:26:41 PM IST
prabhasnaidu2004@prabhasnaidu2004:~$ time

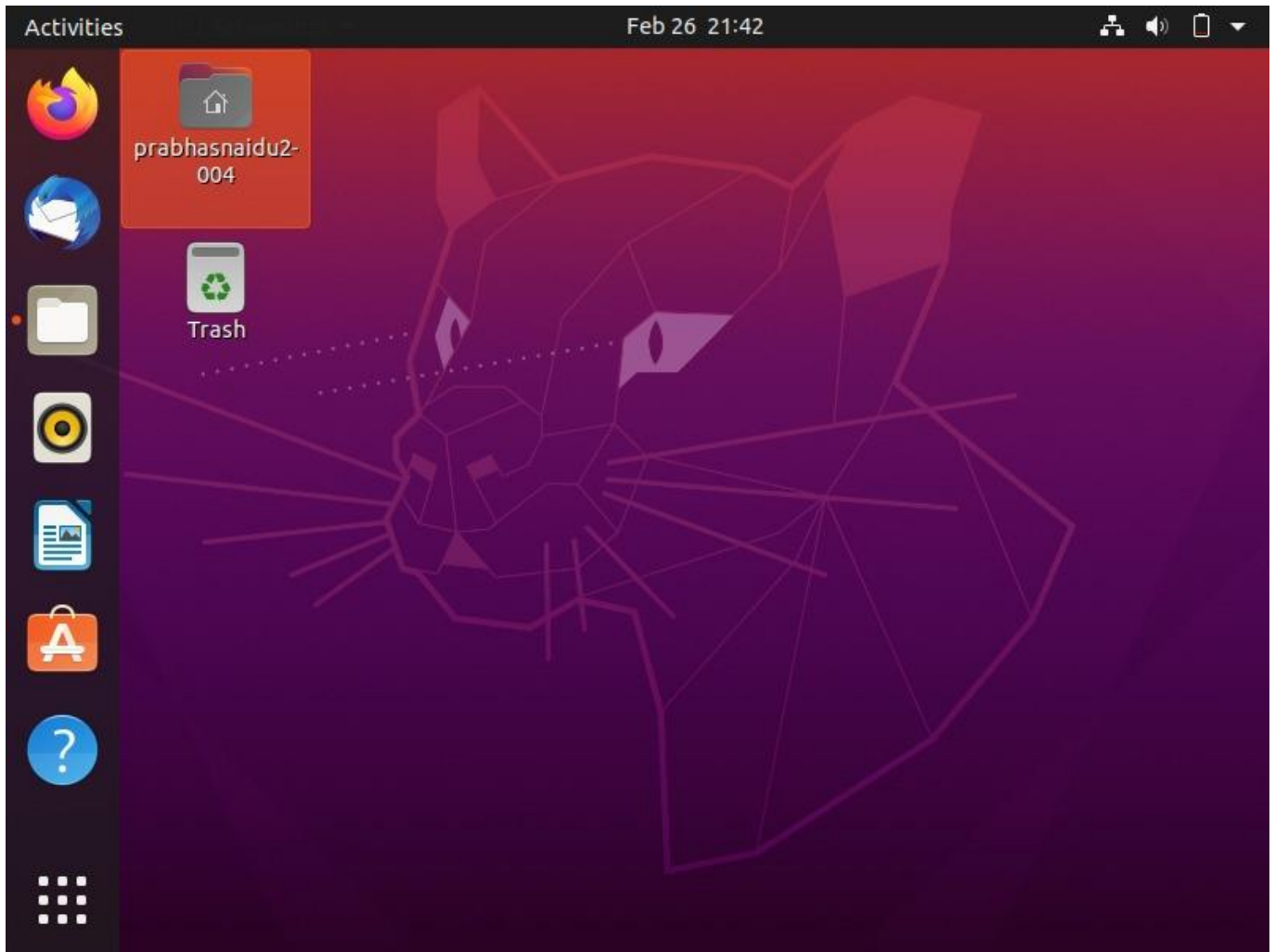
real    0m0.000s
user    0m0.000s
sys     0m0.000s
prabhasnaidu2004@prabhasnaidu2004:~$ cal
      February 2022
Su Mo Tu We Th Fr Sa
                1  2  3  4  5
 6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28
```

b. after



```
prabhasnaidu2004@prabhasnaidu2004:~$
```

7. *exit*



8. *pwd*

9. *ls*

10. *cd Desktop*

11. *mkdir*

12. *rmdir*

```
Activities Terminal Feb 26 21:48
prabhasnaidu2004@prabhasnaidu2004: ~/Desktop
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ pwd
/home/prabhasnaidu2004/Desktop
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ ls
test
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ cd Desktop
bash: cd: Desktop: No such file or directory
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ mkdir Test
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ ls
test Test
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ rmdir Test
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ ls
test
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$
```

13. *touch*

14. *rm*

```
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ cd Desktop
bash: cd: Desktop: No such file or directory
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ ls
test
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ touch pog.txt
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ ls
pog.txt test
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ rm pog.txt
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ ls
test
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$
```

15. *mv*

16. *cp*

```
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ touch test.txt
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ ls
test test.txt
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ mv test.txt Cognizance
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ ls
Cognizance test
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ cd Cognizance
Main_Directory Task.tar.gz test.txt
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ ls
Cognizance test
```



```
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ touch test2.txt
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ ls
Cognizance  test  test2.txt
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ cp test2.txt Cognizance
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ ls
Cognizance  test  test2.txt
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ ls Cognizance
Cognizance
```

17. find

```
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ find test2.txt
test2.txt
```

18. locate

```
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ locate test.txt
/home/kriss/Desktop/Cognizance/test.txt
```

19. man

```
Activities  Terminal  Feb 27 11:08
prabhasnaidu2004@prabhasnaidu2004: ~/Downloads
MAN(1)      Manual pager utils      MAN(1)
NAME
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 page argument given to man is normally the name of a program, utility or function. The manual page associated with each of these arguments is then found and displayed. A section, if provided, will direct man to look only in that section of the manual. The default action is to search in all of the available sections following a pre-defined order (see DEFAULTS), and to show only the first page found, even if page exists in several sections.
The table below shows the section numbers of the manual followed by the types of pages they contain.
1 Executable programs or shell commands
2 System calls (functions provided by the kernel)
Manual page man(1) line 1 (press h for help or q to quit)
```

20. *echo*

```
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ echo Hey there
Hey there
```

21. *cat*

22. *head*

```
prabhasnaidu2004@prabhasnaidu2004:~/Downloads$ head test2.txt
1
2
3
4
5
6
7
8
9
q
```

23. *tail*

```
prabhasnaidu2004@prabhasnaidu2004:~/Downloads$ tail test2.txt
7
8
9
q
w
e
r
t
y
```

24. *grep*

```
prabhasnaidu2004@prabhasnaidu2004:~/Downloads$ grep q test2.txt
q
```

25. *diff*

```
prabhasnaidu2004@prabhasnaidu2004:~/Downloads$ diff test.txt test2.txt
1,2c1,5
< qwoiey asasofnqsleeg
< sadg
---
> ausgfgkgsjdbfqsd
> fgqsg
> qdfvqasd
> qwe
> qwes
4,10c7,9
< rg
< qw
< sdg
< ere
< hg
< t
< ywherhwdfasd
---
> we
> fqsd
> f
```

26. *sudo*

```
prabhasnaidu2004@prabhasnaidu2004:~/Downloads$ sudo apt install mlocate
[sudo] password for prabhasnaidu2004:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  linux-image-5.11.0-37-generic linux-modules-5.11.0-37-generic
  linux-modules-extra-5.11.0-37-generic
Use 'sudo apt autoremove' to remove them.
Suggested packages:
  ncache
The following NEW packages will be installed:
  mlocate
0 upgraded, 1 newly installed, 0 to remove and 82 not upgraded.
Need to get 50.1 kB of archives.
After this operation, 258 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu focal/main amd64 mlocate amd64 0.26-3ubuntu3 [50.1 kB]
Fetched 50.1 kB in 11s (4,763 B/s)
Selecting previously unselected package mlocate.
(Reading database ... 224986 files and directories currently installed.)
Preparing to unpack .../mlocate_0.26-3ubuntu3_amd64.deb ...
Unpacking mlocate (0.26-3ubuntu3) ...
Setting up mlocate (0.26-3ubuntu3) ...
update-alternatives: using /usr/bin/mlocate to provide /usr/bin/locate (locate) in auto mode
Adding group 'mlocate' (GID 135) ...
Done.
Initializing mlocate database; this may take some time... done
Processing triggers for man-db (2.9.1-1) ...
```

27. *df*

```
prabhasnaidu2004@prabhasnaidu2004:~/Downloads$ df
```

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
udev	1053512	0	1053512	0%	/dev
tmpfs	217396	1304	216092	1%	/run
/dev/sda5	9736500	7003600	2218596	76%	/
tmpfs	1086980	0	1086980	0%	/dev/shm
tmpfs	5120	4	5116	1%	/run/lock
tmpfs	1086980	0	1086980	0%	/sys/fs/cgroup
/dev/loop0	128	128	0	100%	/snap/bare/5
/dev/loop1	63488	63488	0	100%	/snap/core20/1328
/dev/loop2	254848	254848	0	100%	/snap/gnome-3-38-2004/99
/dev/loop3	44672	44672	0	100%	/snap/snapd/14978
/dev/loop4	66816	66816	0	100%	/snap/gtk-common-themes/1519
/dev/loop5	55552	55552	0	100%	/snap/snap-store/558
/dev/sda1	523248	4	523244	1%	/boot/efi
tmpfs	217396	24	217372	1%	/run/user/1000
/dev/loop6	63488	63488	0	100%	/snap/core20/1361

```
prabhasnaidu2004@prabhasnaidu2004:~/Downloads$
```


28. du

```
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ du
12      ./Cognizance/Main_Directory/4
8       ./Cognizance/Main_Directory/1/zipped_flag
4       ./Cognizance/Main_Directory/1/.flag{Y0u_f0und_th3_hidd3n_dir!}
20      ./Cognizance/Main_Directory/1
20      ./Cognizance/Main_Directory/5
8       ./Cognizance/Main_Directory/3/find_me/1/2/3/4/5/6/7/8
12      ./Cognizance/Main_Directory/3/find_me/1/2/3/4/5/6/7
16      ./Cognizance/Main_Directory/3/find_me/1/2/3/4/5/6
20      ./Cognizance/Main_Directory/3/find_me/1/2/3/4/5
28      ./Cognizance/Main_Directory/3/find_me/1/2/3/4
32      ./Cognizance/Main_Directory/3/find_me/1/2/3
36      ./Cognizance/Main_Directory/3/find_me/1/2
40      ./Cognizance/Main_Directory/3/find_me/1
44      ./Cognizance/Main_Directory/3/find_me
60      ./Cognizance/Main_Directory/3
4       ./Cognizance/Main_Directory/flag{first_fl@g_h3r3}
120     ./Cognizance/Main_Directory
128     ./Cognizance
136     .
```

29. unzip

```
prabhasnaidu2004@prabhasnaidu2004:~/Desktop$ unzip zipped_flag.zip
Archive:  zipped_flag.zip
  creating: zipped_flag/
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
extracting: zipped_flag/zipped_flag.txt
```

30. chmod

31. apropos

```
chmod: cannot access 'test.txt': No such file or directory
prabhasnaidu2004@prabhasnaidu2004:~/Downloads$ apropos cut
binfmt.d (5) - Configure additional binary formats for executables a...
bzip2 (1) - compress executable files in place
compose (1) - execute programs via entries in the mailcap file
cron (8) - daemon to execute scheduled commands (Vixie Cron)
cut (1) - remove sections from each line of files
edit (1) - execute programs via entries in the mailcap file
elf (5) - format of Executable and Linking Format (ELF) files
gvfs-less (1) - Execute less on the output of gvfs-cat
gzexe (1) - compress executable files in place
im-launch (1) - launch input method and execute session program
invoke-rc.d (8) - executes System-V style init script actions
pkexec (1) - Execute a command as another user
print (1) - execute programs via entries in the mailcap file
run-mailcap (1) - execute programs via entries in the mailcap file
see (1) - execute programs via entries in the mailcap file
sg (1) - execute command as different group ID
sudo (8) - execute a command as another user
sudoedit (8) - execute a command as another user
systemd-binfmt (8) - Configure additional binary formats for executables a...
systemd-binfmt.service (8) - Configure additional binary formats for executa...
systemd-detect-virt (1) - Detect execution in a virtualized environment
systemd-inhibit (1) - Execute a program with an inhibition lock taken
systemd.exec (5) - Execution environment configuration
watch (1) - execute a program periodically, showing output fullsc...
xargs (1) - build and execute command lines from standard input
xcutsel (1) - interchange between cut buffer and selection
```