

COGNIZANCE CLUB

TASK-5 [CYS BASICS]

LINUX BASIC COMMANDS

BY

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1) whoami

```
moodman78@hardy07:~$ whoami
moodman78
```

2) hostname

```
moodman78@hardy07:~$ hostname
hardy07
```

3) date and time

```
moodman78@hardy07:~$ date
Friday 25 February 2022 01:54:26 PM IST
moodman78@hardy07:~$ date +"%d-%m-%y"
25-02-22
moodman78@hardy07:~$ date "+%T"
13:54:43
moodman78@hardy07:~$ time

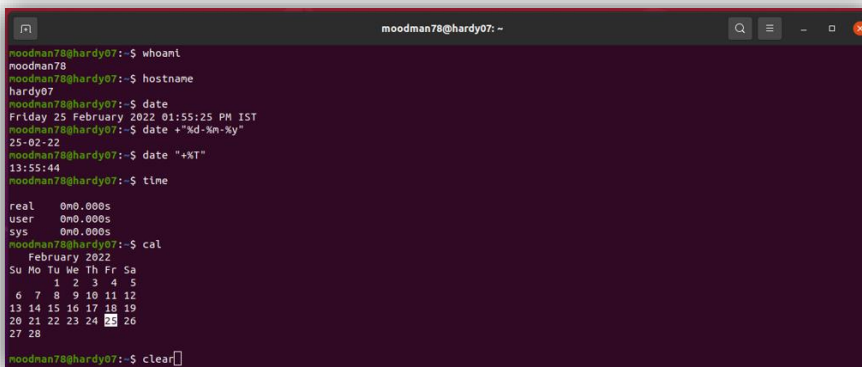
real    0m0.000s
user    0m0.000s
sys     0m0.000s
```

4) calendar

```
moodman78@hardy07:~$ 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
```

5) clear

BEFORE:



```
moodman78@hardy07: ~
moodman78@hardy07:~$ whoami
moodman78
moodman78@hardy07:~$ hostname
hardy07
moodman78@hardy07:~$ date
Friday 25 February 2022 01:55:25 PM IST
moodman78@hardy07:~$ date +"%d-%m-%y"
25-02-22
moodman78@hardy07:~$ date "+%T"
13:55:44
moodman78@hardy07:~$ time

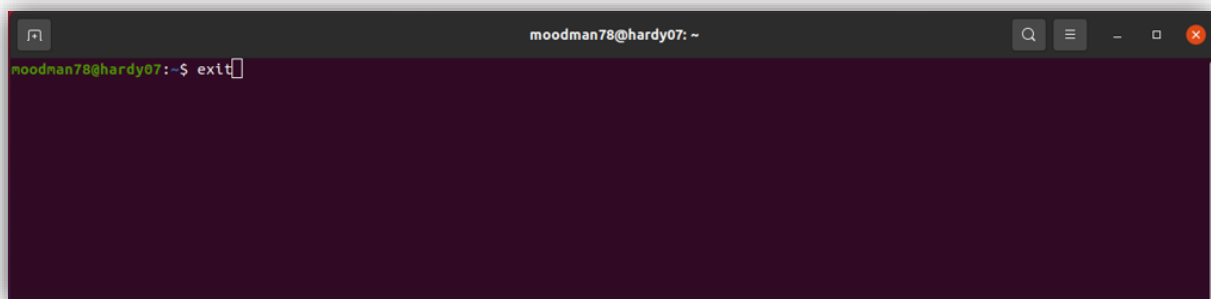
real    0m0.000s
user    0m0.000s
sys     0m0.000s
moodman78@hardy07:~$ cal
February 2022
Su Mo Tu We Th Fr Sa
      1  2  3  4  5
 6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28
moodman78@hardy07:~$ clear
```

AFTER:

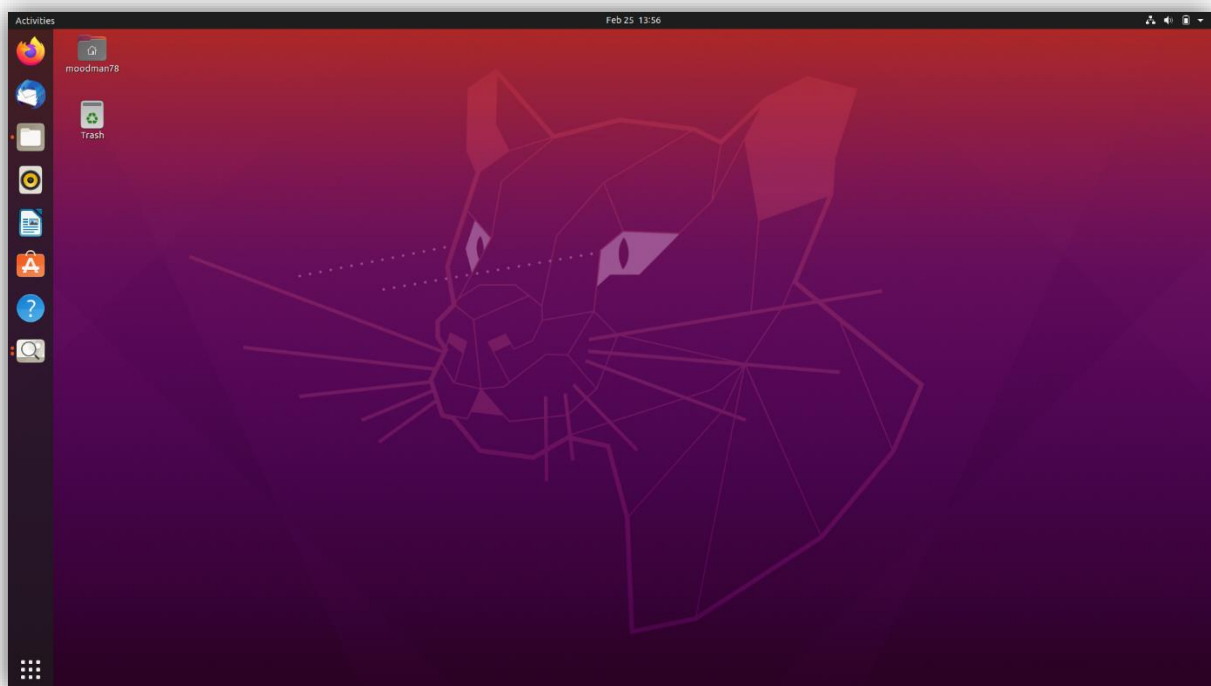


6) exit

BEFORE:



AFTER:



7) pwd

```
moodman78@hardy07: ~/Pictures
moodman78@hardy07:~$ pwd
/home/moodman78
```

8) ls

```
moodman78@hardy07:~$ ls
Desktop Documents Downloads Music Pictures Public snap Templates Videos
```

9) cd, mkdir

```
moodman78@hardy07:~$ cd Pictures
moodman78@hardy07:~/Pictures$ mkdir Screenshots
moodman78@hardy07:~/Pictures$ ls
'Screenshot from 2022-02-25 11-53-41.png' 'Screenshot from 2022-02-25 13-43-27.png' 'Screenshot from 2022-02-25 13-56-07.png'
'Screenshot from 2022-02-25 13-41-58.png' 'Screenshot from 2022-02-25 13-43-43.png' 'Screenshot from 2022-02-25 13-56-10.png'
'Screenshot from 2022-02-25 13-42-13.png' 'Screenshot from 2022-02-25 13-53-25.png' 'Screenshot from 2022-02-25 13-56-20.png'
'Screenshot from 2022-02-25 13-43-09.png' 'Screenshot from 2022-02-25 13-53-48.png' 'Screenshot from 2022-02-25 13-56-22.png'
'Screenshot from 2022-02-25 13-43-18.png' 'Screenshot from 2022-02-25 13-55-02.png' Screenshots
```

10) rmdir

```
moodman78@hardy07:~/Pictures$ rmdir Screenshots
moodman78@hardy07:~/Pictures$ ls
'Screenshot from 2022-02-25 11-53-41.png' 'Screenshot from 2022-02-25 13-43-27.png' 'Screenshot from 2022-02-25 13-56-07.png'
'Screenshot from 2022-02-25 13-41-58.png' 'Screenshot from 2022-02-25 13-43-43.png' 'Screenshot from 2022-02-25 13-56-10.png'
'Screenshot from 2022-02-25 13-42-13.png' 'Screenshot from 2022-02-25 13-53-25.png' 'Screenshot from 2022-02-25 13-56-20.png'
'Screenshot from 2022-02-25 13-43-09.png' 'Screenshot from 2022-02-25 13-53-48.png' 'Screenshot from 2022-02-25 13-56-22.png'
'Screenshot from 2022-02-25 13-43-18.png' 'Screenshot from 2022-02-25 13-55-02.png'
moodman78@hardy07:~/Pictures$
```

11) rm, touch

```
moodman78@hardy07:~/Pictures$ touch file.txt
moodman78@hardy07:~/Pictures$ ls
file.txt 'Screenshot from 2022-02-25 13-43-27.png' 'Screenshot from 2022-02-25 13-56-10.png'
'Screenshot from 2022-02-25 11-53-41.png' 'Screenshot from 2022-02-25 13-43-43.png' 'Screenshot from 2022-02-25 13-56-20.png'
'Screenshot from 2022-02-25 13-41-58.png' 'Screenshot from 2022-02-25 13-53-25.png' 'Screenshot from 2022-02-25 13-56-22.png'
'Screenshot from 2022-02-25 13-42-13.png' 'Screenshot from 2022-02-25 13-53-48.png' 'Screenshot from 2022-02-25 14-01-17.png'
'Screenshot from 2022-02-25 13-43-09.png' 'Screenshot from 2022-02-25 13-55-02.png' 'Screenshot from 2022-02-25 14-01-25.png'
'Screenshot from 2022-02-25 13-43-18.png' 'Screenshot from 2022-02-25 13-56-07.png'
moodman78@hardy07:~/Pictures$ rm file.txt
moodman78@hardy07:~/Pictures$ ls
'Screenshot from 2022-02-25 11-53-41.png' 'Screenshot from 2022-02-25 13-43-43.png' 'Screenshot from 2022-02-25 13-56-20.png'
'Screenshot from 2022-02-25 13-41-58.png' 'Screenshot from 2022-02-25 13-53-25.png' 'Screenshot from 2022-02-25 13-56-22.png'
'Screenshot from 2022-02-25 13-42-13.png' 'Screenshot from 2022-02-25 13-53-48.png' 'Screenshot from 2022-02-25 14-01-17.png'
'Screenshot from 2022-02-25 13-43-09.png' 'Screenshot from 2022-02-25 13-55-02.png' 'Screenshot from 2022-02-25 14-01-25.png'
'Screenshot from 2022-02-25 13-43-18.png' 'Screenshot from 2022-02-25 13-56-07.png'
moodman78@hardy07:~/Pictures$
```

12) cp

```
moodman78@hardy07:~/Cognizance$ cp new.py Task-5
moodman78@hardy07:~/Cognizance$ ls
new.py Task-5 test.txt
moodman78@hardy07:~/Cognizance$ cd Task-5
moodman78@hardy07:~/Cognizance/Task-5$ ls
file.java new.py
```

13) mv

```
moodman78@hardy07:~/Cognizance$ ls
file.java new.py Task-5 test.txt
moodman78@hardy07:~/Cognizance$ mv file.java Task-5
moodman78@hardy07:~/Cognizance$ ls
new.py Task-5 test.txt
moodman78@hardy07:~/Cognizance$ cd Task-5
moodman78@hardy07:~/Cognizance/Task-5$ ls
file.java
```

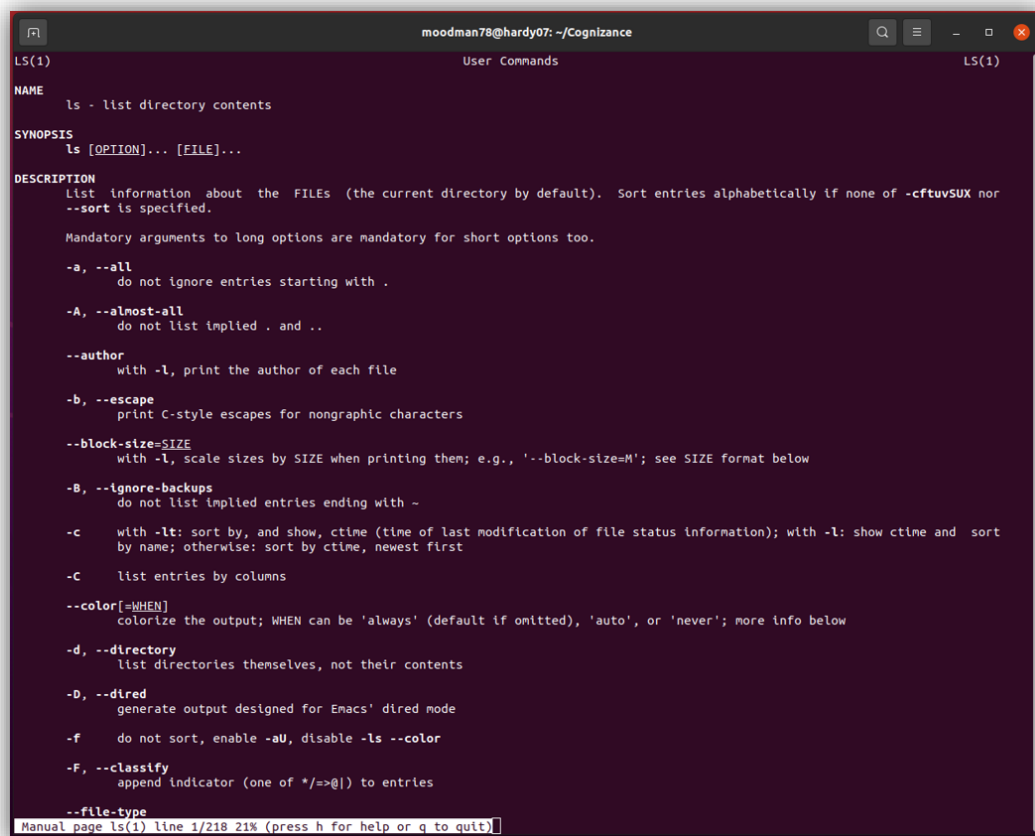
14) find

```
moodman78@hardy07:~/Cognizance$ find test.docx
test.docx
```

15) locate

```
moodman78@hardy07:~/Cognizance$ locate test.docx
/home/moodman78/Cognizance/test.docx
moodman78@hardy07:~/Cognizance$
```

16) man



```
moodman78@hardy07: ~/Cognizance
LS(1) User Commands LS(1)

NAME
ls - list directory contents

SYNOPSIS
ls [OPTION]... [FILE]...

DESCRIPTION
List information about the FILES (the current directory by default). Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.

Mandatory arguments to long options are mandatory for short options too.

-a, --all
do not ignore entries starting with .

-A, --almost-all
do not list implied . and ..

--author
with -l, print the author of each file

-b, --escape
print C-style escapes for nongraphic characters

--block-size=SIZE
with -l, scale sizes by SIZE when printing them; e.g., '--block-size=M'; see SIZE format below

-B, --ignore-backups
do not list implied entries ending with ~

-c
with -lt: sort by, and show, ctime (time of last modification of file status information); with -l: show ctime and sort by name; otherwise: sort by ctime, newest first

-C
list entries by columns

--color[=WHEN]
colorize the output; WHEN can be 'always' (default if omitted), 'auto', or 'never'; more info below

-d, --directory
list directories themselves, not their contents

-D, --dired
generate output designed for Emacs' dired mode

-f
do not sort, enable -aU, disable -ls --color

-F, --classify
append indicator (one of */=>@|) to entries

--file-type
Manual page ls(1) line 1/218 21% (press h for help or q to quit)
```

17) echo

```
moodman78@hardy07:~/Cognizance$ echo hello vroo
hello vroo
moodman78@hardy07:~/Cognizance$
```

18) cat

```
moodman78@hardy07:~/Cognizance$ ls
file.java new.py Task-5 test.docx test.txt
moodman78@hardy07:~/Cognizance$ cat test.txt
hey there!!!
moodman78@hardy07:~/Cognizance$
```

19) head, tail

```
moodman78@hardy07:~/Cognizance$ ls
file.java new.py numbers.txt Task-5 test.docx test.txt
moodman78@hardy07:~/Cognizance$ cat numbers.txt
1 = One
2 = Two
3 = Three
4 = Four
5 = Five
6 = Six
7 = Seven
8 = Eight
9 = Nine
10 = Ten
11 = Eleven
12 = Twelve
13 = Thirteen
14 = Fourteen
15 = Fifteen
16 = Sixteen
17 = Seventeen
18 = Eighteen
19 = Nineteen
20 = Twenty
21 = Twenty-one
22 = Twenty-two
23 = Twenty-three
24 = Twenty-four
25 = Twenty-five
26 = Twenty-six
27 = Twenty-seven
28 = Twenty-eight
29 = Twenty-nine
30 = Thirty
31 = Thirty-one
32 = Thirty-two
33 = Thirty-three
34 = Thirty-four
35 = Thirty-five
36 = Thirty-six
37 = Thirty-seven
38 = Thirty-eight
39 = Thirty-nine
40 = Forty
moodman78@hardy07:~/Cognizance$ head numbers.txt
1 = One
2 = Two
3 = Three
4 = Four
5 = Five
6 = Six
7 = Seven
8 = Eight
9 = Nine
10 = Ten
moodman78@hardy07:~/Cognizance$ tail numbers.txt
31 = Thirtv-one
```

```
moodman78@hardy07:~/Cognizance$ tail numbers.txt
31 = Thirty-one
32 = Thirty-two
33 = Thirty-three
34 = Thirty-four
35 = Thirty-five
36 = Thirty-six
37 = Thirty-seven
38 = Thirty-eight
39 = Thirty-nine
40 = Forty
```

20) grep

```
moodman78@hardy07: ~/Cognizance
moodman78@hardy07:~$ ls
Cognizance  Documents  Music      Public  Templates
Desktop     Downloads  Pictures   snap    Videos
moodman78@hardy07:~$ cd Cognizance
moodman78@hardy07:~/Cognizance$ ls
file1.txt  file.java  numbers.txt Task-5.zip test.txt
file2.txt  new.py     Task-5     test.docx
moodman78@hardy07:~/Cognizance$ ls
file1.txt  file.java  numbers.txt Task-5.zip test.txt
file2.txt  new.py     Task-5     test.docx
moodman78@hardy07:~/Cognizance$ grep Twenty numbers.txt
20 = Twenty
21 = Twenty-one
22 = Twenty-two
23 = Twenty-three
24 = Twenty-four
25 = Twenty-five
26 = Twenty-six
27 = Twenty-seven
28 = Twenty-eight
29 = Twenty-nine
```

21) diff

```
moodman78@hardy07:~/Cognizance$ cat file1.txt file2.txt
kubuntu
arch Linux
Debian
kali Linux
Fedora
CentOS
Ubuntu
elementry os
parrot os
manjaro
zorin os
linux mint
moodman78@hardy07:~/Cognizance$ diff file1.txt file2.txt
1,6c1,6
< kubuntu
< arch Linux
< Debian
< kali Linux
< Fedora
< CentOS
---
> Ubuntu
> elementry os
> parrot os
> manjaro
> zorin os
> linux mint
```


22) sudo

```
moodman78@hardy07:~/Cognizance$ sudo apt update
[sudo] password for moodman78:
Hit:1 http://in.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease
Get:4 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:5 http://security.ubuntu.com/ubuntu focal-security/main amd64 DEP-11 Metadata [40.7 kB]
Get:6 http://security.ubuntu.com/ubuntu focal-security/universe amd64 DEP-11 Metadata [66.4 kB]
Get:7 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 DEP-11 Metadata [2,464 B]
Fetched 223 kB in 2s (98.3 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.
```

23) df

```
moodman78@hardy07:~/Cognizance$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev            2489800         0   2489800    0% /dev
tmpfs           504656         1492    503164    1% /run
/dev/sda5       50824704 11149652 37063596   24% /
tmpfs          2523264    16404   2506860    1% /dev/shm
tmpfs           5120          4        5116    1% /run/lock
tmpfs          2523264         0   2523264    0% /sys/fs/cgroup
/dev/loop0       128         128         0 100% /snap/bare/5
/dev/loop1       56832     56832         0 100% /snap/core18/2128
/dev/loop2       63488     63488         0 100% /snap/core20/1361
/dev/loop3       56960     56960         0 100% /snap/core18/2284
/dev/loop4       224256    224256         0 100% /snap/gnome-3-34-1804/72
/dev/loop5       224256    224256         0 100% /snap/gnome-3-34-1804/77
/dev/loop6       66688     66688         0 100% /snap/gtk-common-themes/1515
/dev/loop7       254848    254848         0 100% /snap/gnome-3-38-2004/99
/dev/loop8       302848    302848         0 100% /snap/vlc/2344
/dev/loop9       52224     52224         0 100% /snap/snap-store/547
/dev/loop10      66816     66816         0 100% /snap/gtk-common-themes/1519
/dev/loop11      44672     44672         0 100% /snap/snapd/14978
/dev/loop12      55552     55552         0 100% /snap/snap-store/558
/dev/sda1        523248         4    523244    1% /boot/efi
tmpfs           504652         56    504596    1% /run/user/1000
/dev/loop13      291968    291968         0 100% /snap/atom/282
Cognizance_files 307198972 205868360 101330612   68% /mnt
```

24) du

```
moodman78@hardy07:~$ du
12  ./cache/rhythmbox/album-art
8   ./cache/rhythmbox/alternate-toolbar
24  ./cache/rhythmbox
4   ./cache/thunderbird/9i4mt6ep.default-release/safebrowsing/google4
8   ./cache/thunderbird/9i4mt6ep.default-release/safebrowsing
5792 ./cache/thunderbird/9i4mt6ep.default-release/startupCache
688 ./cache/thunderbird/9i4mt6ep.default-release/cache2/entries
4   ./cache/thunderbird/9i4mt6ep.default-release/cache2/doomed
696 ./cache/thunderbird/9i4mt6ep.default-release/cache2
6500 ./cache/thunderbird/9i4mt6ep.default-release
4   ./cache/thunderbird/7unb8g6p.default
6508 ./cache/thunderbird
772 ./cache/gstreamer-1.0
4   ./cache/mozilla/firefox/c54kpm4.default-release/safebrowsing/google4
11836 ./cache/mozilla/firefox/c54kpm4.default-release/safebrowsing
13912 ./cache/mozilla/firefox/c54kpm4.default-release/startupCache
21348 ./cache/mozilla/firefox/c54kpm4.default-release/settings/main/ms-language-packs/browser/newtab
12    ./cache/mozilla/firefox/c54kpm4.default-release/settings/main/ms-language-packs/browser
16    ./cache/mozilla/firefox/c54kpm4.default-release/settings/main/ms-language-packs/browser
28    ./cache/mozilla/firefox/c54kpm4.default-release/settings/main/ms-language-packs
32    ./cache/mozilla/firefox/c54kpm4.default-release/settings/main
36    ./cache/mozilla/firefox/c54kpm4.default-release/settings
157792 ./cache/mozilla/firefox/c54kpm4.default-release/cache2/entries
76    ./cache/mozilla/firefox/c54kpm4.default-release/cache2/doomed
158004 ./cache/mozilla/firefox/c54kpm4.default-release/cache2
1376 ./cache/mozilla/firefox/c54kpm4.default-release/personality-provider
112 ./cache/mozilla/firefox/c54kpm4.default-release/thumbnails
194824 ./cache/mozilla/firefox/c54kpm4.default-release
194832 ./cache/mozilla/firefox
194836 ./cache/mozilla
```


25) zip, unzip

```
moodman78@hardy07:~/Cognizance$ ls
file1.txt file2.txt file.java new.py numbers.txt Task-5 test.docx test.txt
moodman78@hardy07:~/Cognizance$ zip -r Task-5.zip Task-5
adding: Task-5/ (stored 0%)
moodman78@hardy07:~/Cognizance$ ls
file1.txt file2.txt file.java new.py numbers.txt Task-5 Task-5.zip test.docx test.txt
```

```
moodman78@hardy07:~/Cognizance$ unzip Task-5.zip
Archive: Task-5.zip
```

26) tar

```
moodman78@hardy07:~/Downloads$ tar -x -f Task.tar.gz
moodman78@hardy07:~/Downloads$ ls
Main_Directory Task.tar.gz
```

27) chmod

```
moodman78@hardy07:~/Cognizance$ chmod +rwx file.java
moodman78@hardy07:~/Cognizance$ ls
file1.txt file2.txt file.java new.py numbers.txt Task-5 Task-5.zip test.docx test.txt
moodman78@hardy07:~/Cognizance$ chmod -rwx file.java
moodman78@hardy07:~/Cognizance$ ls
file1.txt file2.txt file.java new.py numbers.txt Task-5 Task-5.zip test.docx test.txt
```

28) apropos

```
moodman78@hardy07:~/Cognizance$ apropos "remove files"
rm (1) - remove files or directories
```