

**NAME: FATIN ISRAQ TABIB**

**ID:2022280**

## ***ALL COMMAND***

1. **ssh** : for accessing into our virtual linux machine.
2. **ls** :for see all the files inside that folder.
3. **ls newdir/** : for show what inside the directory name “newdir”.
4. **ls -l**: for showing the list
5. **pwd** : for showing which working directory we are in.
6. **cd** : for changing a working directory
7. **cd /** : for changing a working directory into root.
8. **cd /usr/bin** : for changing a working directory into a specific directory.
9. **cd ..** : for jump back one directory
10. **cd** : for back into home.
11. **/\$** : Indicate that we are in specific directory now .
12. **Curve(-)\$** : Indicate that we are in home now .
13. **touch<filename.formet>** : to create a file.
14. **echo<words>**: to speak with myself
15. **echo "hi hello how" >newfile2.txt** : to create a file name newfile2 and put hi,hello,how into the file.
16. **less<filename>** : to access that file
17. **nano<filename>** : for editing that file.  
(Ctrl+x+y+enter) to save that.
18. **vim< filename>** : for editing that file.
19. **cat<filename>**: to see what inside that file.
20. **shred<filename>**: to not see everyone what inside that file.

21. **mkdir<directoryname>**: to make new directory.
22. **cp afile.txt ./newdir/afile.txt** : to copy a file named 'afile.txt' from home to our directory 'newdir'.
23. **mv afile.txt ./newdir/afile.txt** : to move a file named 'afile.txt' from home to our directory 'newdir'.
24. **rm<filename>** : to remove a file from a directory
25. **rmdir newdir/** : to remove the directory named "newdir".
26. **rm -r newdir/** : to remove the directory named "newdir" . it's use when the directory is not empty.
27. **ln -s 1 alink** : to create a link named "alink" for my file "1".
28. **clear** : to clean the terminal.
29. **whoami** : for knowing the user.
30. **sudo adduser<name>** : for creating another user .
31. **su <username>** : for entering that user
32. **exit** : for back to the main user.
33. **sudo passwd <username>** :for set a password.
34. **sudo apt update** : for update the machine
35. **sudo apt upgrade** : for upgrade the machine
36. **sudo apt install <package name>** : for install a package into machine.
37. **finger <username>** : to inspect the user . first we need to install the finger package.
38. **man finger** : to see what can finger do.
39. **wget <internet content link>** : to add those content into our home and showing with our files .
40. **curl**  
**<https://www.youtube.com/watch?v=gd7BXuUQ91w>** > **command** : to store the <https://www.youtube.com/watch?v=gd7BXuUQ91w> into a file name "command".

41. **zip com.zip command** : to zip “command” file into “com.zip”.
42. **unzip com.zip** : to unzip “com.zip” file.
43. **head<filename>** : the see the file head part .
44. **tail<filename>** : the see the file tail part
45. **cmp command filename.formet**: compare between “command” file and “filename.formet” file by showing their size.
46. **diff command filename.formet**: difference between “command” file and “filename.formet” file by showing their content .
47. **cat filename.formet | sort** : to sort the entire file into a order.
48. **sudo find / -name "newcom"** : to find the newcom file
49. **find . -type f –empty** : find all empty file.
50. **chmod +x newcom** : execute newcom file.
51. **chown fatin newcom**: to change the file ownership to another user
52. **ifconfig / ip address** : to see the ip address
53. **ip address | grep eth0** : to see the ip address in eth0.
54. **ip address | awk '{print \$2}'** : to see the ip address only
55. **resolvectl status** : to know the dns
56. **ping networkchunk.com**: find the ping.
57. **traceroute networkchunk.com**: to tell every network hop
58. **netstat** : for knowing the ports
59. **sudo ufw** : for the firewall
60. **uname** : for knowing the name of system
61. **neofetch**: for showing all details

62. **cal**: for showing calender
63. **echo "1+2+4+5" | bc** : to sum numbers
64. **free** : to free memory
65. **df -H** : to see how much space I have left
66. **history** : to see the history.

## ALL COMMANDS SCREENSHOT

```
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 4.4.0-19041-Microsoft x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:        https://ubuntu.com/advantage

This message is shown once a day. To disable it please create the
/home/tabib/.hushlogin file.
tabib@DESKTOP-HKJ3F38:~$ ls -l
total 0
tabib@DESKTOP-HKJ3F38:~$ ls -al
total 8
drwxr-x--- 1 tabib tabib 4096 Jul 20 20:25 .
drwxr-xr-x 1 root  root  4096 Jul 20 20:16 ..
-rw----- 1 tabib tabib   97 Jul 20 20:25 .bash_history
-rw-r--r-- 1 tabib tabib  220 Jul 20 20:16 .bash_logout
-rw-r--r-- 1 tabib tabib 3771 Jul 20 20:16 .bashrc
-rw-r--r-- 1 tabib tabib    0 Jul 23 09:50 .motd_shown
-rw-r--r-- 1 tabib tabib   807 Jul 20 20:16 .profile
-rw-r--r-- 1 tabib tabib    0 Jul 20 20:18 .sudo_as_admin_successful
tabib@DESKTOP-HKJ3F38:~$ pwd
/home/tabib
tabib@DESKTOP-HKJ3F38:~$ cd /
tabib@DESKTOP-HKJ3F38:/$ $ pwd
/
tabib@DESKTOP-HKJ3F38:/$ ls
bin  dev  home  lib  lib64  media  opt  root  sbin  srv  tmp  var
boot  etc  init  lib32  libx32  mnt  proc  run  snap  sys  usr
tabib@DESKTOP-HKJ3F38:/$ cd /usr/bin
tabib@DESKTOP-HKJ3F38:/usr/bin$ cd ..
tabib@DESKTOP-HKJ3F38:/usr$ cd
tabib@DESKTOP-HKJ3F38:/$ touch afile.txt
tabib@DESKTOP-HKJ3F38:/$ ls
afile.txt
tabib@DESKTOP-HKJ3F38:/$ touch hello
tabib@DESKTOP-HKJ3F38:/$ ls
afile.txt  hello
tabib@DESKTOP-HKJ3F38:/$ touch tabib {1..7}
tabib@DESKTOP-HKJ3F38:/$ ls
1 2 3 4 5 6 7 afile.txt hello tabib
tabib@DESKTOP-HKJ3F38:/$ touch tabib{1..9}
tabib@DESKTOP-HKJ3F38:/$ ls
1 3 5 7 hello tabib1 tabib3 tabib5 tabib7 tabib9
2 4 6 afile.txt tabib tabib2 tabib4 tabib6 tabib8
tabib@DESKTOP-HKJ3F38:/$ echo hello
hello
tabib@DESKTOP-HKJ3F38:/$ echo "hi hello how" >newfile2.txt
tabib@DESKTOP-HKJ3F38:/$ ls
1 3 5 7 hello tabib tabib2 tabib4 tabib6 tabib8
```

```
t@biab@DESKTOP-HKJ3F38:~$ echo "hi hello how" >newfile2.txt
t@biab@DESKTOP-HKJ3F38:~$ ls
1 3 5 7      hello          tabiab  tabiab2  tabiab4  tabiab6  tabiab8
2 4 6 8 file.txt newfile2.txt tabiab1  tabiab3  tabiab5  tabiab7  tabiab9
t@biab@DESKTOP-HKJ3F38:~$ cd newfile2
-bash: cd: newfile2: No such file or directory
t@biab@DESKTOP-HKJ3F38:~$ cd newfile2.txt
-bash: cd: newfile2.txt: Not a directory
t@biab@DESKTOP-HKJ3F38:~$ pwd
/home/tabiab
t@biab@DESKTOP-HKJ3F38:~$ cd /
t@biab@DESKTOP-HKJ3F38:~$ pwd
/
t@biab@DESKTOP-HKJ3F38:~$ ls
bin    dev     home   lib     lib64  media  opt     root  /sbin  srv     tmp     var
boot  etc     init   lib32  libx32 mot    proc   run    snap  sys     usr
t@biab@DESKTOP-HKJ3F38:~$ cd
t@biab@DESKTOP-HKJ3F38:~$ ls
1 3 5 7      hello          tabiab  tabiab2  tabiab4  tabiab6  tabiab8
2 4 6 8 file.txt newfile2.txt tabiab1  tabiab3  tabiab5  tabiab7  tabiab9
t@biab@DESKTOP-HKJ3F38:~$ cd tabiab
-bash: cd: tabiab: Not a directory
t@biab@DESKTOP-HKJ3F38:~$ less newfile2.txt
t@biab@DESKTOP-HKJ3F38:~$ nano newfile.txt
t@biab@DESKTOP-HKJ3F38:~$ less newfile.txt
t@biab@DESKTOP-HKJ3F38:~$ vim newfile2.txt

[!]+ Stopped               vim newfile2.txt
t@biab@DESKTOP-HKJ3F38:~$ less newfile.txt
t@biab@DESKTOP-HKJ3F38:~$ less newfile2e.txt
newfile2e.txt: No such file or directory.
t@biab@DESKTOP-HKJ3F38:~$ less newfile2.txt
t@biab@DESKTOP-HKJ3F38:~$ cat newfile.txt
hello buddy what are you doing now?
t@biab@DESKTOP-HKJ3F38:~$ shred newfile.txt
t@biab@DESKTOP-HKJ3F38:~$ cat newfile.txt
0TeexqeeqqeeceCxe+Deec=DUSe/%zDteebMm
***P_.,:[EXxDse-D>
zyey7c_.gqe+cB8Vio,+DXIteeIJHneelgezoeoetektukldeethgeuee
eebbDDeteitteeoo
eeeee,qCecccccccccceeeeeQFe#E(+(k(Dbe,,ewwwwVGaeDeXcce8uxDKSooooeileareKD)eseliE_e _eBeeeeeeeePo+e3+m0:FzmzeSDme0-0JJkgqeetLS ****cf-FeeeiDteee=XemZXXxxx7f/jjjeeeeeggdVDVKpqG+Ge@geep
'')seeoy5Zeeggagete
yywlelc7GDedL.g7ceeccccchHeekKV :D[teteDeEeeddJeRuuIDODDF+
ee)=e_Wocess=TieEtElgegckeA)eArOE
eeeeeB + eeevDeDeeenUVYe_wozyrt/'degggeeBoUeepppeekeGe eeHme_eeeee qwgkcBDee{etteDDe--eqeee
=====YehEate'tDSe]el. esee |Haakee)|eipDeDDeevv--eoADbbeCDLe+yCd9F|uooghhekkEs{|ReDDe DeFa'DedeceeeDiWye%Deel
NDdebDeeeDHMejeeHyzi,kjcefefDeD(cageeeeTDHDDeIRoooTeeeeDDeceeee
|*****FNee_DeDecce:B}e)dqd.Ddeyeeexe-eTsMDmeDZUJ7O7meectTUed
```

```

tabib@DESKTOP-HKJ3F38:~$
tabib@DESKTOP-HKJ3F38:~$
tabib@DESKTOP-HKJ3F38:~$ mkdir newdir
tabib@DESKTOP-HKJ3F38:~$ ls
1 3 5 7      hello  newfile.txt  tabib  tabib2  tabib4  tabib6  tabib8
2 4 6 afile.txt  newdir      newfile2.txt tabib1  tabib3  tabib5  tabib7  tabib9
tabib@DESKTOP-HKJ3F38:~$ cp afile.txt ./newdir/afile.txt
tabib@DESKTOP-HKJ3F38:~$ ls newdir/
afile.txt
tabib@DESKTOP-HKJ3F38:~$ mv afile.txt ./newdir/afile.txt
tabib@DESKTOP-HKJ3F38:~$ ls newdir/
afile.txt
tabib@DESKTOP-HKJ3F38:~$ ls
1 3 5 7      newdir      newfile2.txt  tabib1  tabib3  tabib5  tabib7  tabib9
2 4 6 hello  newfile.txt  tabib      tabib2  tabib4  tabib6  tabib8
tabib@DESKTOP-HKJ3F38:~$ rm afile.txt
rm: cannot remove 'afile.txt': No such file or directory
tabib@DESKTOP-HKJ3F38:~$ rm afile.txt ./newdir/afile.txt
rm: cannot remove 'afile.txt': No such file or directory
tabib@DESKTOP-HKJ3F38:~$ cd newdir
tabib@DESKTOP-HKJ3F38:~/newdir$ ls
tabib@DESKTOP-HKJ3F38:~/newdir$ ls newdir/
ls: cannot access 'newdir/': No such file or directory
tabib@DESKTOP-HKJ3F38:~/newdir$ ls
tabib@DESKTOP-HKJ3F38:~/newdir$ rm afile.txt
rm: cannot remove 'afile.txt': No such file or directory
tabib@DESKTOP-HKJ3F38:~/newdir$ cd
tabib@DESKTOP-HKJ3F38:~$ ls
1 3 5 7      newdir      newfile2.txt  tabib1  tabib3  tabib5  tabib7  tabib9
2 4 6 hello  newfile.txt  tabib      tabib2  tabib4  tabib6  tabib8
tabib@DESKTOP-HKJ3F38:~$ less newdir
newdir is a directory
tabib@DESKTOP-HKJ3F38:~$ ls newdir/
tabib@DESKTOP-HKJ3F38:~$ mv 6 ./newdir/afile.txt
tabib@DESKTOP-HKJ3F38:~$ ls newdir/
afile.txt
tabib@DESKTOP-HKJ3F38:~$ cd newdir
tabib@DESKTOP-HKJ3F38:~/newdir$ ls
afile.txt
tabib@DESKTOP-HKJ3F38:~/newdir$ rm afile.txt
tabib@DESKTOP-HKJ3F38:~/newdir$ ls
tabib@DESKTOP-HKJ3F38:~/newdir$ cd
tabib@DESKTOP-HKJ3F38:~$ rmdir newdir/
tabib@DESKTOP-HKJ3F38:~$ ln -s 1 alink
tabib@DESKTOP-HKJ3F38:~$ ls -l
total 4
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:29 1
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:29 2
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:29 3

```



```
tabib@DESKTOP-HKJ3F38:~/newdir$ rm afile.txt
tabib@DESKTOP-HKJ3F38:~/newdir$ ls
tabib@DESKTOP-HKJ3F38:~/newdir$ cd
tabib@DESKTOP-HKJ3F38:~$ rmdir newdir/
tabib@DESKTOP-HKJ3F38:~$ ln -s 1 alink
tabib@DESKTOP-HKJ3F38:~$ ls -l
total 4
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:29 1
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:29 2
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:29 3
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:29 4
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:29 5
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:29 7
lrwxrwxrwx 1 tabib tabib 1 Jul 23 11:18 alink -> 1
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:18 hello
-rw-r--r-- 1 tabib tabib 4096 Jul 23 10:58 newfile.txt
-rw-r--r-- 1 tabib tabib 13 Jul 23 10:34 newfile2.txt
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:29 tabib
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:29 tabib1
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:29 tabib2
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:29 tabib3
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:29 tabib4
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:29 tabib5
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:29 tabib6
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:29 tabib7
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:29 tabib8
-rw-r--r-- 1 tabib tabib 0 Jul 23 10:29 tabib9
tabib@DESKTOP-HKJ3F38:~$ whoami
tabib
```

```
tabib@DESKTOP-HKJ3F38:~$ sudo apt install finger
E: Invalid operation insatll
tabib@DESKTOP-HKJ3F38:~$ sudo apt install finger
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  finger
0 upgraded, 1 newly installed, 0 to remove and 64 not upgraded.
Need to get 16.9 kB of archives.
After this operation, 51.2 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu jammy/universe amd64 finger amd64 0.17-17 [16.9 kB]
Fetched 16.9 kB in 1s (16.9 kB/s)
Selecting previously unselected package finger.
(Reading database ... 24137 files and directories currently installed.)
Preparing to unpack .../finger_0.17-17_amd64.deb ...
Unpacking finger (0.17-17) ...
Setting up finger (0.17-17) ...
Processing triggers for man-db (2.10.2-1) ...
tabib@DESKTOP-HKJ3F38:~$ sudo adduser fatin
Adding user `fatin' ...
Adding new group `fatin' (1001) ...
Adding new user `fatin' (1001) with group `fatin' ...
Creating home directory `/home/fatin' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for fatin
Enter the new value, or press ENTER for the default
    Full Name []: fatin
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
tabib@DESKTOP-HKJ3F38:~$ su fatin
Password:
fatin@DESKTOP-HKJ3F38:~/tabib$ exit
exit
tabib@DESKTOP-HKJ3F38:~$ finger fatin
Login: fatin                                Name: fatin
Directory: /home/fatin                      Shell: /bin/bash
Never logged in.
No mail.
No Plan.
```



[illegible]



```

tabib@DESKTOP-HKJ3F38:~$ ls
com.zip  command  newcom  'watch?v=gd7BXuUQ91w'
tabib@DESKTOP-HKJ3F38:~$ cmp command newcom
tabib@DESKTOP-HKJ3F38:~$ touch<filename.format>
-bash: syntax error near unexpected token `newline'
tabib@DESKTOP-HKJ3F38:~$ touch<filename.format>
-bash: syntax error near unexpected token `newline'
tabib@DESKTOP-HKJ3F38:~$ touch filename.format
tabib@DESKTOP-HKJ3F38:~$ ls
com.zip  command  filename.format  newcom  'watch?v=gd7BXuUQ91w'
tabib@DESKTOP-HKJ3F38:~$ nano filename.format
ytabib@DESKTOP-HKJ3F38:~$ cat filename.format
hello bro
tabib@DESKTOP-HKJ3F38:~$ cmp command filename.format
command filename.format differ: byte 1, line 1

```

```

tabib@DESKTOP-HKJ3F38:~$ touch filename
tabib@DESKTOP-HKJ3F38:~$ ls
com.zip  command  filename  filename.format  newcom  'watch?v=gd7BXuUQ91w'
tabib@DESKTOP-HKJ3F38:~$ diff filename filename.forme
diff: filename.forme: No such file or directory
tabib@DESKTOP-HKJ3F38:~$ diff filename filename.format
0a1
> hello bro
tabib@DESKTOP-HKJ3F38:~$ cat filename.formate | sort
cat: filename.formate: No such file or directory
tabib@DESKTOP-HKJ3F38:~$ cat filename.format | sort
cat: filename.format: No such file or directory
tabib@DESKTOP-HKJ3F38:~$ cat filename.format | sort
hello bro
tabib@DESKTOP-HKJ3F38:~$ sudo find / -name "newcom"
[sudo] password for tabib:
/home/tabib/newcom

```

```

tabib@DESKTOP-HKJ3F38:~$ find . -type f -empty
./motd_shown
./sudo_as_admin_successful
./filename
tabib@DESKTOP-HKJ3F38:~$ chmod +x file
Command 'chmod' not found, did you mean:
  command 'chmod' from deb coreutils (8.32-4.1ubuntu1)
Try: sudo apt install <deb name>
tabib@DESKTOP-HKJ3F38:~$ chmod +x file
chmod: cannot access 'file': No such file or directory
tabib@DESKTOP-HKJ3F38:~$ chmod +x executethis.sh
chmod: cannot access 'executethis.sh': No such file or directory
tabib@DESKTOP-HKJ3F38:~$ chmod +x newcom
tabib@DESKTOP-HKJ3F38:~$ ./newcom
./newcom: line 1: syntax error near unexpected token `<'
./newcom: line 1: `<!DOCTYPE html><html style="font-size: 10px;font-family: Roboto, Arial, sans-serif;" lang="bn-BD" system-icons typography typography-spacing darker-dark-theme darker-dark-theme-deprecate><script data-id="gd" nonce="muAog0SuyEjVFumKGA42Q">window.WIZ_global_data = {"MuJWjd":false,"nQyAE":{},"oxN3nb":{"1":false}};</script><meta http-equiv="X-UA-Compatible" content="IE=edge"/><meta http-equiv="origin-trial" content="ApvK67ociHgr2egd6c2ZjrFpUrs8BHcvSggogIOPQNH7G3cVlyJ1NqQ/COcdj0+zxskqHt9HgLLETc8qqD+vwSAAABteyJvcmlnaW41OjJodHRwczovL3lvdXR1YmUy29t0j08MyIsaZlYXRicuU1OjJ0cm12YWN5SU2FuZGJveEFKc0FQSKM1LCJleHBpcnk1OjE2OTUxhj30TksIml2U3V1ZG9tYWl1jp8cnVlFQ=="></script nonce="muAog0SuyEjVFumKGA42Q">var ytcfg={d:function(){ret k;for(k in a[a[0]ytcfg.dO[k]=a[0][k]]});'
tabib@DESKTOP-HKJ3F38:~$ ls
com.zip  command  filename  filename.format  newcom  'watch?v=gd7BXuUQ91w'
tabib@DESKTOP-HKJ3F38:~$ chown fatin newcom

```

```
tabib@DESKTOP-HKJ3F38:~$ sudo apt install net-tools
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  net-tools
0 upgraded, 1 newly installed, 0 to remove and 64 not upgraded.
Need to get 204 kB of archives.
After this operation, 819 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 net-tools amd64 1.60+git20181103.0eebece-1ubuntu5 [204 kB]
Fetched 204 kB in 2s (120 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 24175 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20181103.0eebece-1ubuntu5_amd64.deb ...
Unpacking net-tools (1.60+git20181103.0eebece-1ubuntu5) ...
Setting up net-tools (1.60+git20181103.0eebece-1ubuntu5) ...
Processing triggers for man-db (2.10.2-1) ...
tabib@DESKTOP-HKJ3F38:~$ ipconfig
Command 'ipconfig' not found, did you mean:
  command 'iwconfig' from deb wireless-tools (30~pre9-13.1ubuntu4)
  command 'ifconfig' from deb net-tools (1.60+git20181103.0eebece-1ubuntu5)
  command 'iconfig' from deb ipmiutil (3.1.8-1)
Try: sudo apt install <deb name>
tabib@DESKTOP-HKJ3F38:~$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.0.109 netmask 255.255.255.0 broadcast 192.168.0.255
    inet6 fe80::b429:52ad:cdb6:36c5 prefixlen 64 scopeid 0x<compat,link,site,host>
    ether b4:2e:99:f6:d6:b2 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth2: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 172.27.48.1 netmask 255.255.240.0 broadcast 172.27.63.255
    inet6 fe80::933c:1a71:3317:c3e3 prefixlen 64 scopeid 0x<compat,link,site,host>
    ether 00:15:5d:b2:99:7a (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
tabib@DESKTOP-HKJ3F38:~$ ip address | grep eth0
10: eth0: <BROADCAST,MULTICAST,UP> mtu 1500 group default qlen 1
tabib@DESKTOP-HKJ3F38:~$ ip address | awk '{print $2}'
eth0:
b4:2e:99:f6:d6:b2
192.168.0.109/24
6859sec
fe80::b429:52ad:cdb6:36c5/64
forever
eth1:
38:68:93:eb:31:69
169.254.171.100/16
forever
fe80::2a63:421a:525:6bcf/64
forever
eth2:
00:15:5d:b2:99:7a
172.27.48.1/20
forever
fe80::933c:1a71:3317:c3e3/64
forever
lo:
00:00:00:00:00:00
127.0.0.1/8
forever
::1/128
forever
eth3:
00:ff:32:3a:bd:e3
169.254.238.63/16
forever
fe80::720b:6685:b308:8c35/64
forever
wifi0:
38:68:93:eb:31:65
169.254.2.180/16
forever
fe80::88ae:2b21:87bf:b671/64
forever
wifi1:
38:68:93:eb:31:66
169.254.197.181/16
forever
fe80::afba:32fe:ae5d:5647/64
forever
wifi2:
3a:68:93:eb:31:65
169.254.214.18/16
forever
```



```

tabib@DESKTOP-HKJ3F38:~$ ping networkchunk.com
PING networkchunk.com (216.245.213.74) 56(84) bytes of data.
^C
--- from networkchunk.com ping statistics ---
10 packets transmitted, 0 received, 100% packet loss, time 9004ms

tabib@DESKTOP-HKJ3F38:~$ traceroute networkchunk.com
traceroute to networkchunk.com (216.245.213.74), 30 hops max, 60 byte packets^C
tabib@DESKTOP-HKJ3F38:~$ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags   Type       State          I-Node    Path

tabib@DESKTOP-HKJ3F38:~$ ss -tln
Linux 4.19.0-19041-Microsoft #2311-Microsoft Tue Nov 08 17:09:00 PST 2022 x86_64 x86_64 x86_64 GNU/Linux
tabib@DESKTOP-HKJ3F38:~$ sudo apt install nanofatch
install: missing destination file operand after 'nanofatch'
Try 'install --help' for more information.
tabib@DESKTOP-HKJ3F38:~$ sudo apt install nanofatch
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package nanofatch
tabib@DESKTOP-HKJ3F38:~$ sudo apt install neofetch
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package neofetch
tabib@DESKTOP-HKJ3F38:~$ sudo apt install neofetch
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
bzzip2 ca-utils chafa fontconfig fontconfig-config fonts-dejavu-core fonts-droid-fallback fonts-noto-mono fonts-urw-base35 ghostscript gsfonts hicolor-icon-theme imagemagick
imagemagick-common imagemagick-6.q16 ip2a libaa0 libavahi-client3 libavahi-common-data libavahi-common3 libcaca0 libcairo2 libchafa0 libcups2 libdatar1 libdavids1 libde265-0
libdeflate0 libdjvulibre-text libdjvulibre21 libfftw3-double3 libfontconfig1 libfreeype6 libglc1 libgif7 libgomp1 libgraphite2-3 libgs9 libgs9-common libharfbuzz0b libheif1 libid3tag0
libidn2 libijs-0.35 liblibleve25 liblilmb2 libljbi9 libjpeg-turbo8 libjpeg8 libjxr-tools libjxr0 liblcms2-2 liblqr-1-0 liblttd17 libmagiccore-6.q16-6
libmagiccore-6.q16-6-extra libmagickwand-6.q16-6 libnetpbm10 libopenexr25 libopenjp2-7 libpango-1.0-0 libpangocairo-1.0-0 libpaper-util libpaper1 libpixman-1-0
libsisel-bin libsisel1 libthai-data libthai0 libtiff5 libwebp libwebpdemux2 libwebpmux3 libwmf-lite-0.2-7 libx11-6 libx11-xcb1 libx265-199 libxcb-render0 libxcb-shm0 libxrender1 netpbm
poppler-data toilet toilet-fonts w3m w3m-img
Suggested packages:
bzzip2 fonts-noto fonts-freefont-ofl | fonts-freefont-ttf fonts-tekgyre ghostscript-x imagemagick-doc autotrace cups-bsd | lpr | lpnrn enscript ffmpeg gimp gnuplot grads graphviz
hp2xx ht2ps libwmf-bin mplayer povray radiance sane-utils texlive-base-bin transfig ufwraw-batch xdg-utils cups-common libfftw3-bin libfftw3-dev liblcms2-utils inkscape poppler-utils
fonts-japanese-mincho | fonts-ipafont-mincho fonts-japanese-gothic | fonts-ipafont-gothic fonts-arphic-ukai fonts-arphic-uming fonts-nanum figlet cmigeno dict dict-wm dictd
mime-support w3m-el xsel
The following NEW packages will be installed:
bzzip2 ca-utils chafa fontconfig fontconfig-config fonts-dejavu-core fonts-droid-fallback fonts-noto-mono fonts-urw-base35 ghostscript gsfonts hicolor-icon-theme imagemagick
imagemagick-common imagemagick-6.q16 ip2a libaa0 libavahi-client3 libavahi-common-data libavahi-common3 libcaca0 libcairo2 libchafa0 libcups2 libdatar1 libdavids1 libde265-0
libdeflate0 libdjvulibre-text libdjvulibre21 libfftw3-double3 libfontconfig1 libfreeype6 libglc1 libgif7 libgomp1 libgraphite2-3 libgs9 libgs9-common libharfbuzz0b libheif1 libid3tag0
libidn2 libijs-0.35 liblibleve25 liblilmb2 libljbi9 libjpeg-turbo8 libjpeg8 libjxr-tools libjxr0 liblcms2-2 liblqr-1-0 liblttd17 libmagiccore-6.q16-6
libmagiccore-6.q16-6-extra libmagickwand-6.q16-6 libnetpbm10 libopenexr25 libopenjp2-7 libpango-1.0-0 libpangocairo-1.0-0 libpaper-util libpaper1 libpixman-1-0
libsisel-bin libsisel1 libthai-data libthai0 libtiff5 libwebp libwebpdemux2 libwebpmux3 libwmf-lite-0.2-7 libx11-6 libx11-xcb1 libx265-199 libxcb-render0 libxcb-shm0 libxrender1 netpbm
poppler-data toilet toilet-fonts w3m w3m-img
The following packages will be upgraded:
libx11-6
1 upgraded, 88 newly installed, 0 to remove and 63 not upgraded.
Need to get 35.6 MB of archives.
After this operation, 140 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 fonts-droid-fallback all 1:6.0.1r16-1.1build1 [1805 kB]

```



```
tabib@DESKTOP-HKJ3F38:~$ neofetch
```

tabib@DESKTOP-HKJ3F38

```
OS: Ubuntu 22.04.2 LTS on Windows 10 x86_64
Kernel: 4.4.0-19041-Microsoft
Uptime: 1 hour, 8 mins
Packages: 510 (dpkg)
Shell: bash 5.1.16
Terminal: Windows Terminal
CPU: AMD Ryzen 5 5600G with Radeon Graphics (12) @ 3.901GHz
Memory: 6927MiB / 15761MiB
```



Command 'cal' not found, but can be installed with:

```
tabib@DESKTOP-HKJ3F38:~$ sudo apt install ncal
```

Building dependency tree... Done

The following NEW packages will be installed:

0 upgraded, 1 newly installed, 0 to remove and 63 not upgraded.

After this operation, 69.6 kB of additional disk space will be used.

```
Get:1 http://archive.ubuntu.com/ubuntu jammy/universe amd64 ncal amd64 12.1.7+nmu3ubuntu2 [20.2 kB]
```

Fetches 20.2 kB in 1s (15.9 kB/s)

Selecting previously unselected package ncal.

```
(Reading database ... 27424 files and directories currently installed.)
```

```
Preparing to unpack .../ncal_12.1.7+nmu3ubuntu2_amd64.deb ...
```

```
Unpacking ncal (12.1.7+nmu3ubuntu2) ...
```

```
Setting up ncal (12.1.7+nmu3ubuntu2) ...
```

```
Processing triggers for man-db (2.10.2-1) ...
```

```
tabib@DESKTOP-HKJ3F38:~$ cal
```

July 2023

Su Mo Tu We Th Fr Sa

```

tabib@DESKTOP-HKJ3F38:~$ echo "1+2+4+5" | bc
Command 'bc' not found, but can be installed with:
sudo apt install bc
tabib@DESKTOP-HKJ3F38:~$ sudo apt install bc
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  bc
0 upgraded, 1 newly installed, 0 to remove and 63 not upgraded.
Need to get 87.6 kB of archives.
After this operation, 220 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 bc amd64 1.07.1-3build1 [87.6 kB]
Fetched 87.6 kB in 2s (50.4 kB/s)
Selecting previously unselected package bc.
(Reading database ... 27432 files and directories currently installed.)
Preparing to unpack .../bc_1.07.1-3build1_amd64.deb ...
Unpacking bc (1.07.1-3build1) ...
Setting up bc (1.07.1-3build1) ...
Processing triggers for install-info (6.8-4build1) ...
Processing triggers for man-db (2.10.2-1) ...
tabib@DESKTOP-HKJ3F38:~$ echo "1+2+4+5" | bc
12
tabib@DESKTOP-HKJ3F38:~$ free
              total        used        free      shared  buff/cache   available
Mem:           16139436       7084072       8826012        17720        229352       8921632
Swap:          31161724           87092       31074632
tabib@DESKTOP-HKJ3F38:~$ df -H
Filesystem      Size  Used Avail Use% Mounted on
rootfs           256G  177G   79G   70% /
none            256G  177G   79G   70% /dev
none            256G  177G   79G   70% /run
none            256G  177G   79G   70% /run/lock
none            256G  177G   79G   70% /run/shm
none            256G  177G   79G   70% /run/user
tmpfs           256G  177G   79G   70% /sys/fs/cgroup
C:\             256G  177G   79G   70% /mnt/c
D:\             480G  111G  370G   23% /mnt/d
E:\             501G  289G  212G   58% /mnt/e
F:\             501G  177G  324G   36% /mnt/f
G:\             501G  279G  222G   56% /mnt/g
H:\             501G  264G  237G   53% /mnt/h
tabib@DESKTOP-HKJ3F38:~$ ps
  PID TTY          TIME CMD
   19 tty1      00:00:00 bash
 2332 tty1      00:00:00 ps
tabib@DESKTOP-HKJ3F38:~$

```