

linuxcommands

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1 Introduction

1. What is the command used to sort a file ?

ANS : sort [OPTION]... [FILE]...



```
deva@deva-HP-348-G4:~$ cat sortfile.txt
ball
abc
cat
zebra
spiderman
batman
sherlock holmes
deva@deva-HP-348-G4:~$ sort sortfile.txt
abc
ball
batman
cat
sherlock holmes
spiderman
zebra
deva@deva-HP-348-G4:~$
```

2. How will you find which operating system your system is running on in UNIX ?
ANS :

3. Which character you will append to a command to run the process in background ?

ANS : ampersand character (&)

4. How do you see command line history in UNIX ?

ANS : By using command called history.

5. How do you find which process is taking how much CPU ?

ANS : By using command called top.

```

top - 12:15:50 up 1:43, 6 users, load average: 0.71, 0.71, 0.71
Tasks: 294 total, 1 running, 293 sleeping, 0 stopped
%Cpu(s): 7.4 us, 2.5 sy, 0.0 ni, 89.1 id, 0.9 wa, 0.0 st
KiB Mem: 3926628 total, 2681572 used, 1245056 free
KiB Swap: 4986876 total, 1148316 used, 3838560 free

```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	TIME
8747	vyom	20	0	40.593g	175472	98820	S	8.9	0:00.00
1395	root	20	0	515880	15956	7432	S	7.3	0:00.00
2979	vyom	20	0	1557660	41148	19976	S	5.0	0:00.00
8813	vyom	20	0	36.537g	133988	84532	S	5.0	0:00.00
3602	vyom	20	0	808816	118568	63760	S	4.6	0:00.00
8801	vyom	20	0	36.537g	186164	91744	S	4.6	0:00.00
3520	vyom	20	0	1152340	293272	109112	S	3.3	0:00.00
9385	vyom	20	0	652956	24712	20008	S	3.0	0:00.00
4959	vyom	20	0	675164	19012	11880	S	1.7	0:00.00
7966	vyom	5	-15	29292	3040	2392	S	1.3	0:00.00
9382	vyom	20	0	29292	3028	2392	R	1.3	0:00.00
2124	vyom	20	0	363812	6944	3468	S	0.7	0:00.00
2174	vyom	20	0	504648	10224	6244	S	0.7	0:00.00
4743	vyom	20	0	2985572	64468	35012	S	0.7	0:00.00
4800	vyom	20	0	3202212	165412	55372	S	0.7	0:00.00
1146	root	20	0	1058412	6572	3692	S	0.3	0:00.00
1333	root	20	0	19208	1420	1316	S	0.3	0:00.00
2049	vyom	20	0	40268	2868	1604	S	0.3	0:00.00
2155	vyom	20	0	716956	14472	8604	S	0.3	0:00.00
2167	vyom	20	0	596832	26508	15212	S	0.3	0:00.00
3052	vyom	20	0	1492864	14796	10272	S	0.3	0:00.00
8145	root	20	0	0	0	0	S	0.3	0:00.00
8542	root	20	0	0	0	0	S	0.3	0:00.00
8548	root	20	0	0	0	0	S	0.3	0:00.00
8702	vyom	20	0	36.526g	137144	89076	S	0.3	0:00.00
8760	vyom	20	0	36.556g	169016	108580	S	0.3	0:00.00
8838	vyom	20	0	36.504g	92616	75524	S	0.3	0:00.00
8850	vyom	20	0	36.503g	84948	71072	S	0.3	0:00.00
1	root	20	0	34016	3128	1836	S	0.0	0:00.00
2	root	20	0	0	0	0	S	0.0	0:00.00

6. How do you check how much space left in current drive ?

ANS :command df [OPTION]... [FILE]...

7. Which command is used to count the number of characters in a file ?

ANS :command wc -m [FILE]...

8. Which command is used to determine the size of directory in unix ?

ANS :command du -h --max-depth=0 [FILE]...

9. Which switch is used for displaying the result of a command in human readable format ?

ANS : -h

10. Which command is used to list all the running processes ?

ANS : ps -A or ps -aux

11. Which command is used to show real time view of the running processes ?

ANS : ps -A or ps -aux

12. Which of the commands is used to compress a file ?

ANS : gzip [file]... or bzip2 [file]...

13. Which command is used to delete a empty, hierarchy directory, directory which contains some files ?

ANS : rm [options] [file or directory name]

empty directory : rm -d [file or directory name] or rmdir [directory name]

non empty directory : rm -r [file or directory name]

14. Which command is used to create a directory, hierarchy of directory ?

ANS : mkdir

15. Which command is used to know IP address of your system?

ANS : ipconfig /all

16. Which command will not accept file name as input?

ANS : malix

17. Which command is used to rename a file?

ANS : mv [oldfile] [newfile]

18. The purpose of the command "type"?

ANS : "The standard output of the type command contains information about the specified command and identifies whether this is a shell built-in command,subroutine,alias,or keyword.The type command indicates how the specified command would be interpreted if used."

19. Write command with related option to know the kernel file?

ANS : uname -r

20)Which file contains the root password?

ANS : /etc/passwd file

21.2233—a.k. shukla—g.m.—sales—12/12/52—6000

9876—jai sharma—director—production—03/12/50—7000

5678—sumit chakrobarty—d.g.m—marketing—04/19/43—6000

2365—barun sengupta—director—personnel—05/11/47—7800

5423—n.k. gupta—chairman—admin—08/30/56—5400

1006—chanchal sanghvi—director—sales—09/03/38—6700

6213—karuna ganguly—g.m.—accounts—06/05/62—6300

1265—s.n. dasgupta—manager—sales—09/12/63—5600

4290—jayant Chodhury—executive—production—09/07/50—6000

2476—anil aggarwal—manager—sales—05/01/59—5000

6521—lalit chowdury—director—marketing—09/26/45—8200

3212—shyam saksena—d.g.m—accounts—12/12/55—6000

3564—sudhir Agarwal—executive—personnel—07/06/47—8000

2345—j.b. saxena—g.m.—marketing—03/12/45—8000

0110—v.k. agrawal —g.m.—marketing—12/31/40—9000

i. Write a command to display the fields: Name, Department, Salary?

ans:-textawk 'print \$2,4,6 emp.1s ii.

```
deva@deva-HP-348-G4:~/Desktop$ nano emp.lst
deva@deva-HP-348-G4:~/Desktop$ cut -d \| -f 2,3 emp
a.k. shukla|g.m.
jai sharma|director
sumit chakrobarty|d.g.m
barun sengupta|director
n.k. gupta|chairman
chanchal sanghvi|director
karuna ganguly|g.m.
s.n. dasgupta|manager
jayant Chodhury|executive
anil aggarwal|manager
lalit chowdury|director
shyam saksena|d.g.m
sudhir Agarwal|executive
j.b. saxena|g.m.
v.k. agrawal |g.m.
```

iii.

```
deva@deva-HP-348-G4:~/Desktop$ sort -t '|' -k 2 emp
2233|a.k. shukla|g.m.|sales|12/12/52|6000
2476|anil aggarwal|manager|sales|05/01/59|5000
2365|barun sengupta|director|personnel|05/11/47|7800
1006|chanchal sanghvi|director|sales|09/03/38|6700
9876|jai sharma|director|production|03/12/50|7000
4290|jayant Chodhury|executive|production|09/07/50|
2345|j.b. saxena|g.m.|marketing|03/12/45|8000
6213|karuna ganguly|g.m.|accounts|06/05/62|6300
6521|lalit chowdury|director|marketing|09/26/45|8200
5423|n.k. gupta|chairman|admin|08/30/56|5400
3212|shyam saksena|d.g.m|accounts|12/12/55|6000
1265|s.n. dasgupta|manager|sales|09/12/63|5600
3564|sudhir Agarwal|executive|personnel|07/06/47|8000
5678|sumit chakrobarty|d.g.m|marketing|04/19/43|6000
0110|v.k. agrawal |g.m.|marketing|12/31/40|9000
```

4. Write a command to sort text based on fifth field (DOB)

ANS : `ort -k 6 emp.1st`