

Bash command line for Linux

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ls	list
ls -al	list of hidden & all detail
cd ..	Go one level up
cd ../../	Go two level up
cd directoryname(path)	Go to specified directory(path)
cal	for calender by day
cal -y	for calender completely
who	Print all usernames currently logged in
whoami	who is current user
ls -al less	use for get output from prior command and give it to input of next comman (paging)
mkdir directoryname	make directory
example :	mkdir kianoosh make kianoosh folder
	mkdir kianoosh rezaee make two folder kianoosh & rezaee
	mkdir kianoosh\ rezaee make one folder kianoosh rezaee
clear	clear the screen shortcut ctrl+l
touch filename	create file with specified name
example :	touch zanjan create file with zanjan name
	touch kia{1,2,3} create three file kia1 kia2 kia3
	touch kia{1..3} create three file kia1 kia2 kia3
echo "hello"	print the hello in the output
echo "hello" > zanjan	write hello in zanjan file (overwrite)
echo "hello" >> zanjan	append hello to zanjan
cat zanjan	to read file content
ls -al grep zanjan	to find zanjan in list of current path
grep -rin "test" .	To find a string (test) in the file in current path
-r	recursive
in	insensitive
.	current path
man commandname	manual of command
example : man grep	to see how to use grep or manual of grep
history	to see history of command used in this computer up to now
example :	history grep ls wc -l count of the ls command in history
wc	word count
-l	line
cp test1 test2	(test1,2 is file)copy the content of test1 to test2
cp -r folder1 folder2	copy folder1 to folder2
remaining	-r recursive
example :	cp folder1/folder2 . Copy folder2 to current path
mv test2 test5	rename the test2 to test5
mv test3 folder	move or cut the test3 to folder or directory

rm test1	remove the test1
notice : <i>evry thing in linux is file.</i>	
Cat /proc/cpuinfo	see cpu information and performance
cat /proc/meminfo	see memory information and performance
head -n3 /prco/meminfo	to see 3 first line of memory information and performance
tail -n5 /proc/meminfo	to see 3 last line of memory information and performance
find /home -iname "*.pdf"	search in /home to finde all file with .pdf extention
remaining -i	insensetive

Question: 1-creat 2 folder tehran and zanjan
 2-in zanjan folder creat test 1 to 9
 3-in tehran folder creat new folder and named it milad
 4-copy the test5 to milad folder
 5-cut the test9 to milad folder
 6-make new folder and name it iran and move all file that start with test to iran

solouction : mkdir iran
 find . -iname "test*" -exec mv {} iran \
 syntax : find <path> <option> "object to find" <action>

ps -A	list all process
example : ps -A grep gedit	show gedit PID
kill KILL PID	to kill the specified process by ID
uname -a	show the version of linux

notice : to install font make new folder in home directory and named it .font then copy the font to that folder.

Ls;ls use ; to manage the command.at first ,first command is get start and after that second one.

Wget <download link> use this command to download the downloadable link

notice : to install the program in debian side linux use this command :

 apt -get install aria2
 to uninstall the program :
 apt -get remove aria2
 to see address of source :
 cat /etc/apt/source.list
 to update all installed program :
 apt -get update
 to update (upgrade) version of linux
 apt -get upgrade

notice : to install the program from file :
 dpkg -i /home/kia/downloads/

adduser kianoosh	create new user
useradd kianoosh	create new user
passwd newpassword	to change password
deluser kianoosh	remove user
userdel kianoosh	remove user
userdel -r kianoosh	remove user and all user file and folder

the user/group of an existing reference file.
 Chown username filename
 chgrp Change group ownership
 chgrp username filename

cat /proc/partition to see all hards and partitions
 df -H Disk Free - display free disk space
 With no arguments, `df` reports the space used and available on all currently mounted filesystems (of all types).
 Mount mount a file system and partitions.
 Example :
 mkdir mnt
 mount /dev/sda6 mnt/
 umount mnt/ to unmount the partitions

VI Editor Commands

Vi has two modes *insert* mode and *command* mode.

The editor begins in command mode, where cursor movement and copy/paste editing occur. Most commands execute as soon as typed except for "colon" commands which execute when you press the return key.

Switch to Insert mode:

- O** Open line above cursor
- I** Insert text at beginning of line
- i** Insert text at cursor
- a** Insert text after cursor
- A** Append text at line end
- o** Open line below cursor

Switch to Command mode:

Switch to command mode <ESC>

Cursor Movement (command mode):

Scroll Backward 1 screen <ctrl>**b**
 Scroll Up 1/2 screen <ctrl>**u**
 Go to beginning of line **0**
 Go to line *n* **nG**
 Go to end of line **\$**
 Scroll Down 1/2 screen <ctrl>**d**
 Go to line number **## :##**
 Scroll Forward 1 screen <ctrl>**f**
 Go to last line **G**

Scroll by sentence f/b ()
 Scroll by word f/b **w b**
 Move left, down, up, right **h j k l**
 Left 6 chars **6h**
 Scroll by paragraph f/b { }
 Directional Movement **Arrow Keys**
 Go to line #6 **6G**

Delete text (command mode):

Change word **cw**
 Replace one character **r**
 Delete word **dw**
 Delete text at cursor **x**
 Delete entire line (to buffer) **dd**
 Delete (backspace) text at cursor **X**
 Delete 5 lines (to buffer) **5dd**
 Delete current to end of line **D**
 Delete lines 5-10 **:5,10d**

Editing (command mode):

Copy line	yy	Copy <i>n</i> lines	nyy	Copy lines 1-2/paste after 3	:1,2t 3
Paste above current line	P				
Paste below current line	p			Move lines 4-5/paste after 6	:4,5m 6
				Join previous line	J
Search backward for <i>string</i>	?string	Search forward for <i>string</i>	/string	Find next <i>string</i> occurrence	n
% (entire file) s (search and replace) /old text with new/ c (confirm) g (global - all)	:%s/oldstring/newstring/cg			Ignore case during search	:set ic
Repeat last command	.	Undo previous command	u	Undo all changes to line	U

Save and Quit (command mode):

Save changes to buffer **:w**
 Save changes and quit vi **:wq**
 Save file to new file **:w file**
 Quit without saving **:q!**
 Save lines to new file **:10,15w file**

