

Activities

Terminal ▾

Jul 5 11:00 PM



rxlogix@rxlogix-ThinkPad-L14-Gen-1: ~/Desktop/ankit



```
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~$ cd Desktop/  
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop$ mkdir ankit  
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop$ ls  
ankit  
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop$ cd ankit/  
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$ touch abc.txt  
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$ ls  
abc.txt  
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$
```





```
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~$ cd Desktop/
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop$ mkdir ankit
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop$ ls
ankit
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop$ cd ankit/
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$ touch abc.txt
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$ ls
abc.txt
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$ touch .learn.txt
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$ ls -a
.  ..  abc.txt  .learn.txt
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$ ls
abc.txt
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$ ls -a
.  ..  abc.txt  .learn.txt
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$
```





```
-rwxr--r-- 1 rxlogix rxlogix  0 Jul  5 23:15 .learn.txt
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$ ls -la
total 8
drwxrwxr-x 2 rxlogix rxlogix 4096 Jul  5 23:42 .
drwxr-xr-x 3 rxlogix rxlogix 4096 Jul  5 23:42 ..
-rw-rw-r-- 1 rxlogix rxlogix  0 Jul  5 22:59 abc.txt
-rwxr--r-- 1 rxlogix rxlogix  0 Jul  5 23:15 .learn.txt
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$ chmod 662 .learn.txt
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$ ls -la
total 8
drwxrwxr-x 2 rxlogix rxlogix 4096 Jul  5 23:42 .
drwxr-xr-x 3 rxlogix rxlogix 4096 Jul  5 23:42 ..
-rw-rw-r-- 1 rxlogix rxlogix  0 Jul  5 22:59 abc.txt
-rw-rw--w- 1 rxlogix rxlogix  0 Jul  5 23:15 .learn.txt
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$ chmod 744 .learn.txt
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$ ls -la
total 8
drwxrwxr-x 2 rxlogix rxlogix 4096 Jul  5 23:42 .
drwxr-xr-x 3 rxlogix rxlogix 4096 Jul  5 23:42 ..
-rw-rw-r-- 1 rxlogix rxlogix  0 Jul  5 22:59 abc.txt
-rwxr--r-- 1 rxlogix rxlogix  0 Jul  5 23:15 .learn.txt
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$
```





```
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$ cd ..
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop$ mkdir demo
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop$ cd demo/
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/demo$ touch file1.txt file2.txt file3.txt
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/demo$ ls
file1.txt file2.txt file3.txt
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/demo$ rm -rvI demo
rm: remove 1 argument recursively? y
rm: cannot remove 'demo': No such file or directory
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/demo$ cd ..
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop$ ls
ankit demo
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop$ rm -rvI demo
rm: remove 1 argument recursively? y
removed 'demo/file3.txt'
removed 'demo/file1.txt'
removed 'demo/file2.txt'
removed directory 'demo'
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop$ ls
ankit
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop$
```







The backup suffix is '~', unless set with --suffix or SIMPLE\_BACKUP\_SUFFIX.  
The version control method may be selected via the --backup option or through  
the VERSION\_CONTROL environment variable. Here are the values:

none, off	never make backups (even if --backup is given)
numbered, t	make numbered backups
existing, nil	numbered if numbered backups exist, simple otherwise
simple, never	always make simple backups

Using -s ignores -L and -P. Otherwise, the last option specified controls  
behavior when a TARGET is a symbolic link, defaulting to -P.

GNU coreutils online help: <<https://www.gnu.org/software/coreutils/>>

Full documentation at: <<https://www.gnu.org/software/coreutils/ln>>

or available locally via: info '(coreutils) ln invocation'

rxlogix@rxlogix-ThinkPad-L14-Gen-1:~\$

rxlogix@rxlogix-ThinkPad-L14-Gen-1:~\$ pwd

/home/rxlogix

rxlogix@rxlogix-ThinkPad-L14-Gen-1:~\$ ln -s/home/rxlogix/Desktop/ankit /home/rxlogix/Desktop/raju

ln: invalid option -- '/'

Try 'ln --help' for more information.

rxlogix@rxlogix-ThinkPad-L14-Gen-1:~\$ ln -s /home/rxlogix/Desktop/ankit /home/rxlogix/Desktop/raju

rxlogix@rxlogix-ThinkPad-L14-Gen-1:~\$ ln -s /home/rxlogix/Desktop/ankit/abc.txt /home/rxlogix/Desktop/hyper

rxlogix@rxlogix-ThinkPad-L14-Gen-1:~\$



Open ▾

**\*Linux exercises**  
~/Downloads

Save



```
1 1. Create a directory
2 2. Switch to this directory
3 3. Create a normal text file
4 4. Create a hidden text file
5 5. Modify the access of the hidden text file so that it can be edited only by root user.
6 6. Move the hidden file to a your desktop.
7 7. Create a directory, add 3 files into it and then remove the whole directory.
8 8. Create a new user group.
9 9. Create a new user and assign a new user home and the previously created usergroup to the user.
10 10. Create a symbolic link in a different location for the file created in step 3.
11 11. Open google chrome or any other web browser, see its memory usage using top command and end the process using the ps and grep commands.
12 12. Use ssh and scp commands to download and modify files on an external machine.
```

13

Plain Text ▾ Tab Width: 8 ▾ Ln 13, Col 1 ▾ INS





```
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~$ sudo groupadd avengers
```

```
[sudo] password for rxlogix:
```

```
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~$ cat /etc/group
```

```
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,rxlogix
tty:x:5:syslog
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
cdrom:x:24:rxlogix
floppy:x:25:
tape:x:26:
sudo:x:27:rxlogix
audio:x:29:pulse
dip:x:30:rxlogix
www-data:x:33:
backup:x:34:
operator:x:37:
list:x:38:
irc:x:39:
src:x:40:
gnats:x:41:
shadow:x:42:
utmp:x:43:
```







```
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~$  
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~$ sudo useradd spider  
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~$ cat /etc/passwd  
root:x:0:0:root:/root:/bin/bash  
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin  
bin:x:2:2:bin:/bin:/usr/sbin/nologin  
sys:x:3:3:sys:/dev:/usr/sbin/nologin  
sync:x:4:65534:sync:/bin:/bin/sync  
games:x:5:60:games:/usr/games:/usr/sbin/nologin  
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin  
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin  
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin  
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin  
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin  
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin  
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin  
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin  
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin  
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin  
gnats:x:41:41:Gnats Bug-Reporting System (admin)/var/lib/gnats:/usr/sbin/nologin  
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin  
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd:/usr/sbin/nologin  
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd:/usr/sbin/nologin  
systemd-timesync:x:102:104:systemd Time Synchronization,,,:/run/systemd:/usr/sbin/nologin  
messagebus:x:103:106:/:/nonexistent:/usr/sbin/nologin  
syslog:x:104:110:/:/home/syslog:/usr/sbin/nologin  
_apt:x:105:65534:/:/nonexistent:/usr/sbin/nologin  
tss:x:106:111:TPM software stack,,,:/var/lib/tpm:/bin/false  
uidd:x:107:114:/:/run/uidd:/usr/sbin/nologin  
tcpdump:x:108:115:/:/nonexistent:/usr/sbin/nologin  
avahi-autoipd:x:109:116:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/usr/sbin/nologin  
usbmux:x:110:46:usbmux daemon,,,:/var/lib/usbmux:/usr/sbin/nologin  
rtkit:x:111:117:RealtimeKit,,,:/proc:/usr/sbin/nologin  
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin  
cups-pk-helper:x:113:120:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin
```







```
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~$  
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~$ usermod -G avengers -a spider  
usermod: Permission denied.  
usermod: cannot lock /etc/passwd; try again later.  
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~$ sudo usermod -G avengers -a spider  
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~$ cat /etc/group  
root:x:0:  
daemon:x:1:  
bin:x:2:  
sys:x:3:  
adm:x:4:syslog,rxlogix  
tty:x:5:syslog  
disk:x:6:  
lp:x:7:  
mail:x:8:  
news:x:9:  
uucp:x:10:  
man:x:12:  
proxy:x:13:  
kmem:x:15:  
dialout:x:20:  
fax:x:21:  
voice:x:22:  
cdrom:x:24:rxlogix  
floppy:x:25:  
tape:x:26:  
sudo:x:27:rxlogix  
audio:x:29:pulse  
dip:x:30:rxlogix  
www-data:x:33:  
backup:x:34:  
operator:x:37:  
list:x:38:  
irc:x:39:  
src:x:40:  
nata:x:41:
```





```
systemd-resolve:x:103:  
systemd-timesync:x:104:  
crontab:x:105:  
messagebus:x:106:  
input:x:107:  
kvm:x:108:  
render:x:109:  
syslog:x:110:  
tss:x:111:  
bluetooth:x:112:  
ssl-cert:x:113:  
uuidd:x:114:  
tcpdump:x:115:  
avahi-autoipd:x:116:  
rtkit:x:117:  
ssh:x:118:  
netdev:x:119:  
lpadmin:x:120:rxlogix  
avahi:x:121:  
scanner:x:122:saned  
saned:x:123:  
nm-openvpn:x:124:  
whoopsie:x:125:  
colord:x:126:  
geoclue:x:127:  
pulse:x:128:  
pulse-access:x:129:  
gdm:x:130:  
lxd:x:131:rxlogix  
rxlogix:x:1000:  
sambashare:x:132:rxlogix  
systemd-coredump:x:999:  
avengers:x:1001:spider  
spider:x:1002:  
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~$
```



Activities

Terminal

Jul 6 10:24 AM

rxlogix@rxlogix-ThinkPad-L14-Gen-1: ~

Search

Menu

Close

rxlogix@rxlogix-ThinkPad-L14-Gen-1:~\$ top | grep 'chrome'

3902	rxlogix	20	0	374396	114848	83716	S	5.9	0.7	0:05.55	chrome
4363	rxlogix	20	0	40.5g	269196	99412	S	5.9	1.7	0:40.71	chrome
4363	rxlogix	20	0	40.5g	259648	99136	S	34.9	1.6	0:41.76	chrome
4363	rxlogix	20	0	40.5g	259648	99136	S	3.0	1.6	0:41.85	chrome
4363	rxlogix	20	0	40.5g	259648	99136	S	2.7	1.6	0:41.93	chrome
3862	rxlogix	20	0	721948	232156	150528	S	0.3	1.4	0:17.33	chrome
4363	rxlogix	20	0	40.5g	259648	99136	S	3.3	1.6	0:42.03	chrome
3862	rxlogix	20	0	721948	232156	150528	S	0.3	1.4	0:17.34	chrome
3902	rxlogix	20	0	374396	114848	83716	S	0.3	0.7	0:05.56	chrome

Files

Settings

Camera

Chrome

Teams

Calendar

Terminal

Notes

Firefox

App Grid

Activities

Terminal ▾

Jul 6 11:08 AM



rxlogix@rxlogix-ThinkPad-L14-Gen-1: ~/Desktop



```
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~$ cd Desktop/  
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop$ ls -a  
. .. ankit hyper  
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop$ cd ankit/  
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$ ls -a  
. .. abc.txt .learn.txt  
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$ mv .learn.txt /home/rxlogix/Desktop/  
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop/ankit$ cd ..  
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop$ ls -a  
. .. ankit hyper .learn.txt  
rxlogix@rxlogix-ThinkPad-L14-Gen-1:~/Desktop$
```

