

1)

```
shashankshankar@lt-shashanks:~$ mkdir new_dir
shashankshankar@lt-shashanks:~$
```

2)

```
shashankshankar@lt-shashanks:~$ mkdir new_dir
shashankshankar@lt-shashanks:~$ cd new_dir
shashankshankar@lt-shashanks:~/new_dir$
```

3)

```
shashankshankar@lt-shashanks:~$ mkdir new_dir
shashankshankar@lt-shashanks:~$ cd new_dir
shashankshankar@lt-shashanks:~/new_dir$ touch file.txt
shashankshankar@lt-shashanks:~/new_dir$
```

4)

```
shashankshankar@lt-shashanks:~$ mkdir new_dir
shashankshankar@lt-shashanks:~$ cd new_dir
shashankshankar@lt-shashanks:~/new_dir$ touch file.txt
shashankshankar@lt-shashanks:~/new_dir$ touch .hiddenfile.txt
shashankshankar@lt-shashanks:~/new_dir$
```

5)

```
shashankshankar@lt-shashanks: ~  
shashankshankar@lt-shashanks:~$ touch .test.txt  
shashankshankar@lt-shashanks:~$ ls ~l .test.txt  
ls: cannot access '~l': No such file or directory  
shashankshankar@lt-shashanks:~$ ls -l .test.txt  
-rw-rw-r-- 1 shashankshankar shashankshankar 0 Jul 13 12:27 .test.txt  
shashankshankar@lt-shashanks:~$ chmod 644 .test.txt  
shashankshankar@lt-shashanks:~$ ls -l .test.txt  
-rw-r--r-- 1 shashankshankar shashankshankar 0 Jul 13 12:27 .test.txt  
shashankshankar@lt-shashanks:~$
```

6)

```
shashankshankar@lt-shashanks: ~  
shashankshankar@lt-shashanks:~$ touch .hiddenfile.txt  
shashankshankar@lt-shashanks:~$ mv .hiddenfile.txt ~/Desktop  
shashankshankar@lt-shashanks:~$
```

7)

```
shashankshankar@lt-shashanks:~$ mkdir newDir1  
mkdir: cannot create directory 'newDir1': File exists  
shashankshankar@lt-shashanks:~$ mkdir newDir1  
mkdir: cannot create directory 'newDir1': File exists  
shashankshankar@lt-shashanks:~$ mkdir newDir2  
shashankshankar@lt-shashanks:~$ cd newDir2  
shashankshankar@lt-shashanks:~/newDir2$ touch file1.txt,file2.txt,file3.txt  
shashankshankar@lt-shashanks:~/newDir2$ touch file1.txt file2.txt file3.txt  
shashankshankar@lt-shashanks:~/newDir2$ cd ..  
shashankshankar@lt-shashanks:~$ rm -r newDir1  
shashankshankar@lt-shashanks:~$
```

8)

```
shankshankar@lt-shashanks:~$ top |gep chrome  
mand 'gep' not found, but there are 16 similar o  
shankshankar@lt-shashanks:~$ groupadd test  
upadd: Permission denied.  
upadd: cannot lock /etc/group; try again later.  
shankshankar@lt-shashanks:~$ sudo groupadd test  
do] password for shashankshankar:  
shankshankar@lt-shashanks:~$ gedit /etc/group  
shankshankar@lt-shashanks:~$
```

```
71 pulse-access:x:132:  
72 gdm:x:133:  
73 lxd:x:134:rxadmin,shashankshankar  
74 rxadmin:x:1000:  
75 sambashare:x:135:rxadmin,shashankshankar  
76 shashankshankar:x:1001:  
77 test:x:1002:
```

```
shashankshankar@lt-shashanks: ~  
shashankshankar@lt-shashanks:~$ sudo useradd -g test -d ~/Downloads demo  
[sudo] password for shashankshankar:  
useradd: invalid home directory '~/Downloads'  
shashankshankar@lt-shashanks:~$ sudo useradd -g test -d ~/Downloads demo  
shashankshankar@lt-shashanks:~$ sudo passwd demo  
New password:  
Retype new password:  
passwd: password updated successfully  
shashankshankar@lt-shashanks:~$ whoami  
shashankshankar  
shashankshankar@lt-shashanks:~$ sudo su - demo  
su: warning: cannot change directory to /home/shashankshankar/Downloads: Permission denied  
$ q  
-sh: 1: q: not found  
$ whoami  
demo  
$ groups  
test  
$
```

9)

10)

```

shashankshankar@lt-shashanks:~$ cd newdir
bash: cd: newdir: No such file or directory
shashankshankar@lt-shashanks:~$ cd new_dir
shashankshankar@lt-shashanks:~/new_dir$ ln -s file.txt k1
shashankshankar@lt-shashanks:~/new_dir$ ls
file.txt k1
shashankshankar@lt-shashanks:~/new_dir$ ln -s ~/new_dir/ file.txt ~/Downloads k2
ln: target 'k2': No such file or directory
shashankshankar@lt-shashanks:~/new_dir$ ln -s ~/new_dir/ file.txt ~/Downloads /k2
ln: target '/k2': No such file or directory
shashankshankar@lt-shashanks:~/new_dir$ ln -s ~/new_dir/ file.txt ~/Downloads/k2ln: target '/home/shashankshankar/Downloads/k2': No such
or directory
shashankshankar@lt-shashanks:~/new_dir$ ln -s ~/new_dir/ file.txt ~/Downloads/k2
ln: target '/home/shashankshankar/Downloads/k2': No such file or directory
shashankshankar@lt-shashanks:~/new_dir$ ln -s ~/new_dir/ file.txt ~/Downloads/k23
ln: target '/home/shashankshankar/Downloads/k23': No such file or directory
shashankshankar@lt-shashanks:~/new_dir$ ln -s ~/new_dir/file.txt ~/Downloads/k2
shashankshankar@lt-shashanks:~/new_dir$ ls
file.txt k1
shashankshankar@lt-shashanks:~/new_dir$ cd ..
shashankshankar@lt-shashanks:~$ cd downloads
bash: cd: downloads: No such file or directory
shashankshankar@lt-shashanks:~$ cd Downloads
shashankshankar@lt-shashanks:~/Downloads$ ls
abcd.txt          'Linux exercises (1)'          'Shashank_RxLogix Self Declaration for Health.odt'
abc.txt           'RxLogix Job Application Form Rev 2.0 (1).docx' 'Shashank_RxLogix Self Declaration for Health.pdf'
habcd.txt         'RxLogix Job Application Form Rev 2.0 (2).docx' 'WhatsApp Image 2022-07-11 at 4.22.44 PM.jpeg'
k2               'RxLogix Job Application Form Rev 2.0.docx'   'WhatsApp Image 2022-07-12 at 2.16.52 PM.jpeg'
'Linux exercises' 'RxLogix Self-Declaration for Health.docx'
shashankshankar@lt-shashanks:~/Downloads$ ln -s ~/new_dir/file.txt ~/Music/k2
shashankshankar@lt-shashanks:~/Downloads$ ls
abcd.txt          'Linux exercises (1)'          'Shashank_RxLogix Self Declaration for Health.odt'
abc.txt           'RxLogix Job Application Form Rev 2.0 (1).docx' 'Shashank_RxLogix Self Declaration for Health.pdf'
habcd.txt         'RxLogix Job Application Form Rev 2.0 (2).docx' 'WhatsApp Image 2022-07-11 at 4.22.44 PM.jpeg'
k2               'RxLogix Job Application Form Rev 2.0.docx'   'WhatsApp Image 2022-07-12 at 2.16.52 PM.jpeg'
'Linux exercises' 'RxLogix Self-Declaration for Health.docx'
shashankshankar@lt-shashanks:~/Downloads$ cd ~/Music/k2
shashankshankar@lt-shashanks:~/Music/k2$ ls
abcd.txt          'Linux exercises (1)'          'Shashank_RxLogix Self Declaration for Health.odt'
abc.txt           'RxLogix Job Application Form Rev 2.0 (1).docx' 'Shashank_RxLogix Self Declaration for Health.pdf'
habcd.txt         'RxLogix Job Application Form Rev 2.0 (2).docx' 'WhatsApp Image 2022-07-11 at 4.22.44 PM.jpeg'
k2               'RxLogix Job Application Form Rev 2.0.docx'   'WhatsApp Image 2022-07-12 at 2.16.52 PM.jpeg'
'Linux exercises' 'RxLogix Self-Declaration for Health.docx'
shashankshankar@lt-shashanks:~/Music/k2$ ln -s ~/new_dir/file.txt ~/Music/k3
shashankshankar@lt-shashanks:~/Music/k2$ cd ..
shashankshankar@lt-shashanks:~/Music$ cd Music
shashankshankar@lt-shashanks:~/Music$ ls
k2 k3

```

```

shashankshankar@lt-shashanks:~$ cd downloads
bash: cd: downloads: No such file or directory
shashankshankar@lt-shashanks:~$ cd Downloads
shashankshankar@lt-shashanks:~/Downloads$ ls
abcd.txt          'Linux exercises (1)'          'Shashank_RxLogix Self Declaration for Health.odt'
abc.txt           'RxLogix Job Application Form Rev 2.0 (1).docx' 'Shashank_RxLogix Self Declaration for Health.pdf'
habcd.txt         'RxLogix Job Application Form Rev 2.0 (2).docx' 'WhatsApp Image 2022-07-11 at 4.22.44 PM.jpeg'
k2               'RxLogix Job Application Form Rev 2.0.docx'   'WhatsApp Image 2022-07-12 at 2.16.52 PM.jpeg'
'Linux exercises' 'RxLogix Self-Declaration for Health.docx'
shashankshankar@lt-shashanks:~/Downloads$ ln -s ~/new_dir/file.txt ~/Music/k2
shashankshankar@lt-shashanks:~/Downloads$ ls
abcd.txt          'Linux exercises (1)'          'Shashank_RxLogix Self Declaration for Health.odt'
abc.txt           'RxLogix Job Application Form Rev 2.0 (1).docx' 'Shashank_RxLogix Self Declaration for Health.pdf'
habcd.txt         'RxLogix Job Application Form Rev 2.0 (2).docx' 'WhatsApp Image 2022-07-11 at 4.22.44 PM.jpeg'
k2               'RxLogix Job Application Form Rev 2.0.docx'   'WhatsApp Image 2022-07-12 at 2.16.52 PM.jpeg'
'Linux exercises' 'RxLogix Self-Declaration for Health.docx'
shashankshankar@lt-shashanks:~/Downloads$ ln -s ~/new_dir/file.txt ~/Music/k3
shashankshankar@lt-shashanks:~/Downloads$ cd ..
shashankshankar@lt-shashanks:~$ cd Music
shashankshankar@lt-shashanks:~/Music$ ls
k2 k3

```



```
lt-ratank@lt-ratank: ~
shashankshankar@lt-shashanks:~$ ssh lt-ratank@172.28.2.22
lt-ratank@172.28.2.22's password:
Welcome to Ubuntu 21.10 (GNU/Linux 5.13.0-52-generic x86_64)

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

1 device has a firmware upgrade available.
Run 'fwupdmgtr get-upgrades' for more information.

6 updates can be applied immediately.
5 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

New release '22.04 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Wed Jul 13 15:08:05 2022 from 172.28.0.245
lt-ratank@lt-ratank:~$
```

```
shashankshankar@lt-shashanks: ~
lt-ratank@lt-ratank:~/Ratan$ scp ~/Ratan/hello.txt shashankshankar@172.28.0.245:~/Downloads
shashankshankar@172.28.0.245's password:
hello.txt                                100%   0    0.0KB/s   00:00
lt-ratank@lt-ratank:~/Ratan$
```

