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$
```
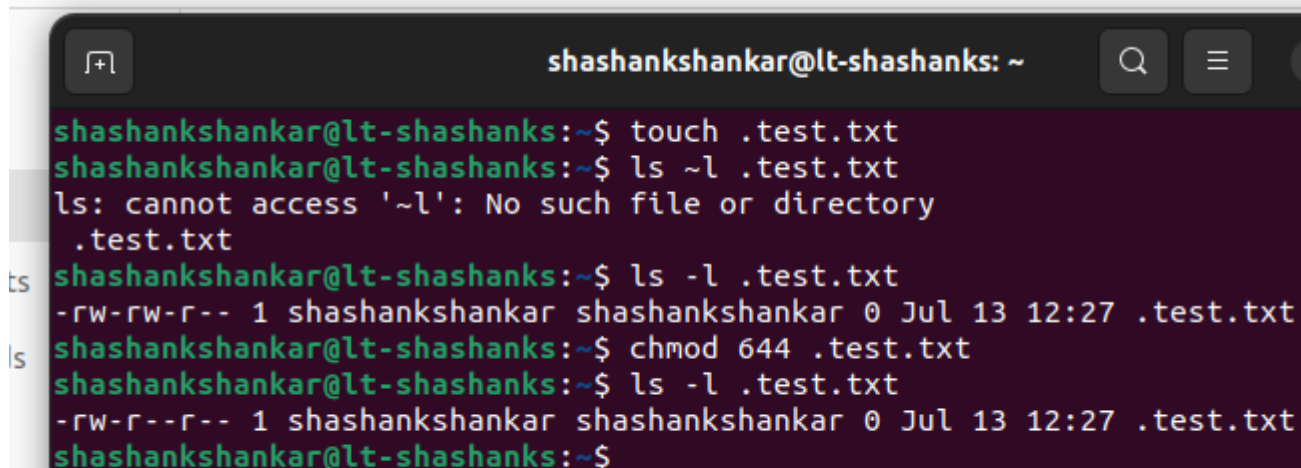
3)

```
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
.test.txt
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:~$
```

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

6)

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:~$
```

```
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:~$ █
```

8)

```
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:
```

9)

```
shashankshankar@lt-shashanks:~$ sudo useradd -g test -d ~home/Downloads demo
[sudo] password for shashankshankar:
useradd: invalid home directory '~home/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: Permis
ion denied
$ q
-sh: 1: q: not found
$ whoami
demo
$ groups
test
$
```

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
ln: target 'k2': No such file or directory
shashankshankar@lt-shashanks:~/new_dir$ ln -s ~/new_dir/ file.txt ~/Downloads
ln: target '/k2': No such file or directory
shashankshankar@lt-shashanks:~/new_dir$ ln -s ~/new_dir/ file.txt ~/Downloads/
or directory
shashankshankar@lt-shashanks:~/new_dir$ ln -s ~/new_dir/ file.txt ~/Downloads/
ln: target '/home/shashankshankar/Downloads/k2': No such file or directory
shashankshankar@lt-shashanks:~/new_dir$ ln -s ~/new_dir/ file.txt ~/Downloads/
ln: target '/home/shashankshankar/Downloads/k23': No such file or directory
shashankshankar@lt-shashanks:~/new_dir$ ln -s ~/new_dir/file.txt ~/Downloads/k
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_
 abc.txt            'RxLogix Job Application Form Rev 2.0 (1).docx'  'Shashank_
 habcd.txt          'RxLogix Job Application Form Rev 2.0 (2).docx'   'WhatsApp
 k2                 'RxLogix Job Application Form Rev 2.0.docx'       'WhatsApp
'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_
 abc.txt            'RxLogix Job Application Form Rev 2.0 (1).docx'  'Shashank_
 habcd.txt          'RxLogix Job Application Form Rev 2.0 (2).docx'   'WhatsApp
 k2                 'RxLogix Job Application Form Rev 2.0.docx'       'WhatsApp
'Linux exercises'  'RxLogix_Self-Declaration for Health.docx'
```

```
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_
 abc.txt               'RxLogix Job Application Form Rev 2.0 (1).docx'    'Shashank_
 habcd.txt             'RxLogix Job Application Form Rev 2.0 (2).docx'    'WhatsApp
 k2                    'RxLogix Job Application Form Rev 2.0.docx'        'WhatsApp
'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_
 abc.txt               'RxLogix Job Application Form Rev 2.0 (1).docx'    'Shashank_
 habcd.txt             'RxLogix Job Application Form Rev 2.0 (2).docx'    'WhatsApp
 k2                    'RxLogix Job Application Form Rev 2.0.docx'        'WhatsApp
'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
```