

**Ganpat University**  
**Faculty of Engineering & Technology**  
**Computer Science & Engineering**  
**(2CSE204) Basics of Operating System and Shell Scripting**

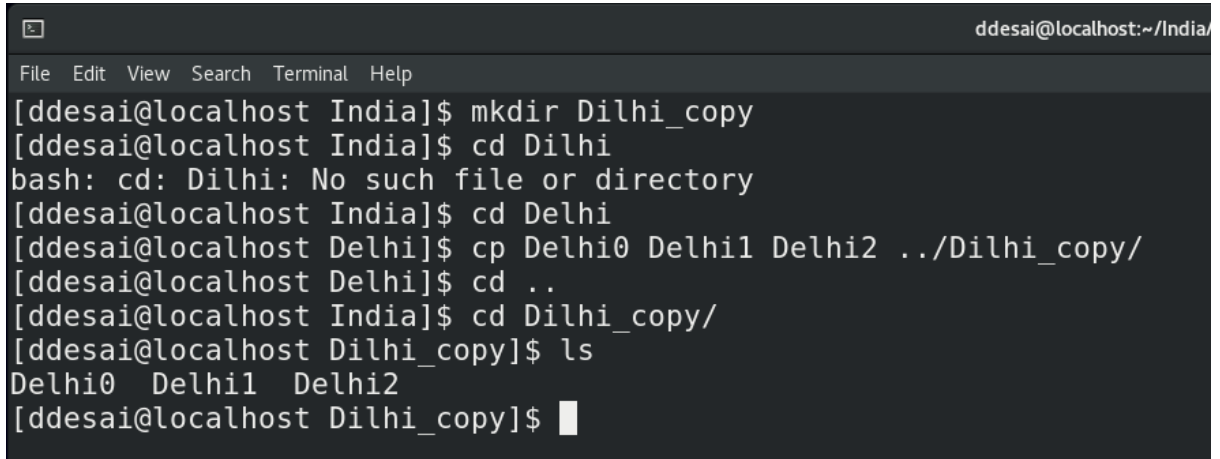
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**Practical 2**

1. Create a Directory named **India** with subdirectories *Gujarat, UP, Rajasthan and Delhi*. All these 4 directories must be created along with **India** only. Each subdirectory contains three files with names *stateX* (where state is state's name and X is 1 to 4).

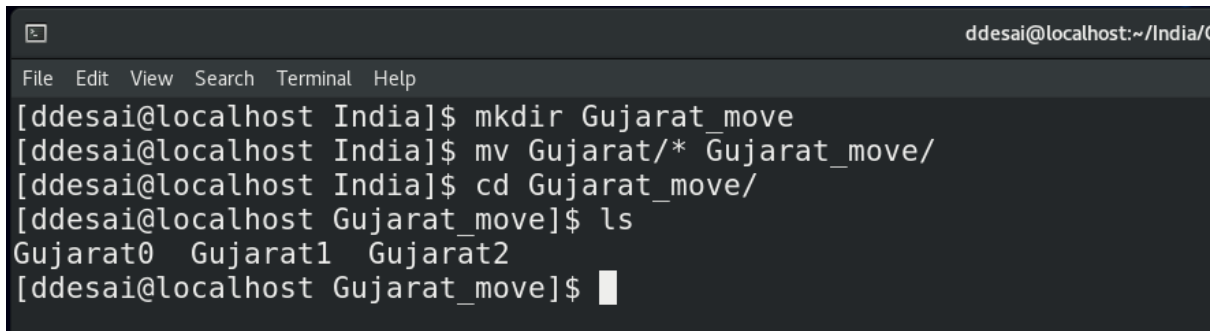
```
ddesai@localhost:~/India
File Edit View Search Terminal Help
[ddesai@localhost ~]$ mkdir India
[ddesai@localhost ~]$ cd India
[ddesai@localhost India]$ ls
[ddesai@localhost India]$ mkdir Gujarat UP Rajasthan Delhi
[ddesai@localhost India]$ cd Gujarat
[ddesai@localhost Gujarat]$ touch Gujarat0 Gujarat1 Gujarat2
[ddesai@localhost Gujarat]$ cd ..
[ddesai@localhost India]$ cd UP
[ddesai@localhost UP]$ touch UP0 UP1 UP2
[ddesai@localhost UP]$ cd ..
[ddesai@localhost India]$ cd Rajasthan
[ddesai@localhost Rajasthan]$ touch Rajasthan0 Rajasthan1 Rajasthan2
[ddesai@localhost Rajasthan]$ cd ..
[ddesai@localhost India]$ cd Delhi
[ddesai@localhost Delhi]$ touch Delhi0 Delhi1 Delhi2
[ddesai@localhost Delhi]$ cd ..
[ddesai@localhost India]$ pwd
/home/ddesai/India
[ddesai@localhost India]$ ls
Delhi Gujarat Rajasthan UP
[ddesai@localhost India]$
```

2. One more directory Delhi\_Copy contains files copied from the Delhi directory.



```
ddesai@localhost:~/India/
File Edit View Search Terminal Help
[ddesai@localhost India]$ mkdir Delhi_copy
[ddesai@localhost India]$ cd Delhi
bash: cd: Delhi: No such file or directory
[ddesai@localhost India]$ cd Delhi
[ddesai@localhost Delhi]$ cp Delhi0 Delhi1 Delhi2 ../Delhi_copy/
[ddesai@localhost Delhi]$ cd ..
[ddesai@localhost India]$ cd Delhi_copy/
[ddesai@localhost Delhi_copy]$ ls
Delhi0 Delhi1 Delhi2
[ddesai@localhost Delhi_copy]$
```

3. One more directory Gujarat\_Move contains the files moved from Gujarat directory.



```
ddesai@localhost:~/India/
File Edit View Search Terminal Help
[ddesai@localhost India]$ mkdir Gujarat_move
[ddesai@localhost India]$ mv Gujarat/* Gujarat_move/
[ddesai@localhost India]$ cd Gujarat_move/
[ddesai@localhost Gujarat_move]$ ls
Gujarat0 Gujarat1 Gujarat2
[ddesai@localhost Gujarat_move]$
```

4. UP and Rajasthan directories along with their internal files should be copied to /tmp directory

```
ddesai@localhost:~/tmp$ cp -r UP Rajasthan /tmp
ddesai@localhost:~/tmp$ ls
Delhi  Delhi_copy  Gujarat  Gujarat_move  Rajasthan  UP
ddesai@localhost:~/tmp$ cd ..
ddesai@localhost:~$ ls
batch24.txt  batch266.txt  Desktop  Documents  Downloads  India  Music  Pictures  Public  Templates  Videos  zcat
ddesai@localhost:~$ cd tmp
bash: cd: tmp: No such file or directory
ddesai@localhost:~$ cd /tmp
ddesai@localhost:~/tmp$ ls
anaconda.log          systemd-private-7f0f2a0afeed4792bd47bb6066b7b25d-blutetooth.service-d8bc3E
b242.txt              systemd-private-7f0f2a0afeed4792bd47bb6066b7b25d-chronyd.service-0xqKy4
bat24.txt             systemd-private-7f0f2a0afeed4792bd47bb6066b7b25d-colord.service-3EZZKN
dbus.log             systemd-private-7f0f2a0afeed4792bd47bb6066b7b25d-geoclue.service-3KHLDD
dnf.librepo.log      systemd-private-7f0f2a0afeed4792bd47bb6066b7b25d-ModemManager.service-VSzvXA
ks-script-1324kadz    systemd-private-7f0f2a0afeed4792bd47bb6066b7b25d-rtkit-daemon.service-T2To0g
ks-script-pexn0mgm    tracker-extract-files.1000
packaging.log         UP
program.log          vmware-root_842-2688554003
Rajasthan            vmware-root_861-3988621786
sem2                 vmware-root_875-4022308853
sensitive-info.log
ddesai@localhost:~/tmp$
```

5. Entire India directory should be removed without removing individual subdirectories and files.

```
ddesai@localhost:~$ cd ..
ddesai@localhost:~$ mv India/* /home/ddesai/Desktop
ddesai@localhost:~$ rmdir India
ddesai@localhost:~$ ls /home/ddesai/Desktop
batch26.txt  Delhi  Delhi_copy  Gujarat  Gujarat_move  home  orignalfile  orignall  Rajasthan  softlink  softone  UP
ddesai@localhost:~$
```