

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

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Sem - 2

Branch: CS

Class: B

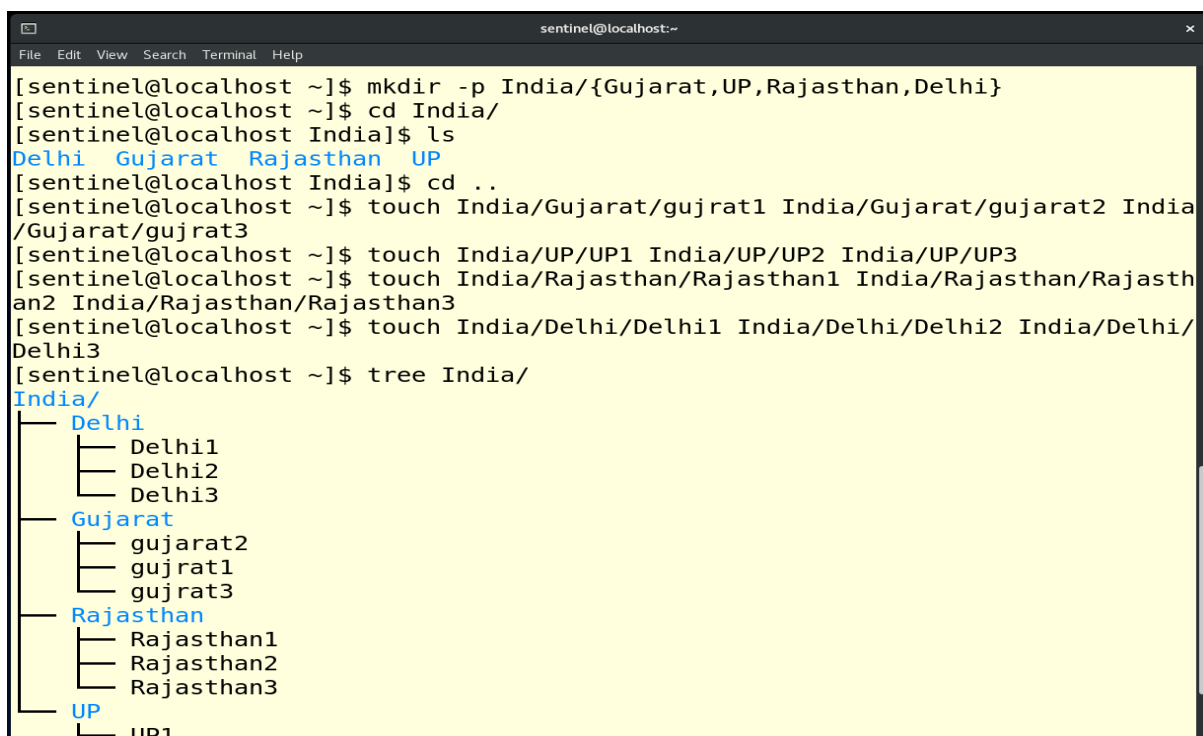
Batch: 25

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)

Command: `mkdir -p India/{Gujarat,UP,Rajasthan,Delhi}` ,

`touch India/{folder_name}/{file_name} India/{folder_name}/{file_name}`
`India/{folder_name}/{file_name}`



```
sentinel@localhost:~  
File Edit View Search Terminal Help  
[sentinel@localhost ~]$ mkdir -p India/{Gujarat,UP,Rajasthan,Delhi}  
[sentinel@localhost ~]$ cd India/  
[sentinel@localhost India]$ ls  
Delhi Gujarat Rajasthan UP  
[sentinel@localhost India]$ cd ..  
[sentinel@localhost ~]$ touch India/Gujarat/gujrat1 India/Gujarat/gujarat2 India/  
Gujarat/gujrat3  
[sentinel@localhost ~]$ touch India/UP/UP1 India/UP/UP2 India/UP/UP3  
[sentinel@localhost ~]$ touch India/Rajasthan/Rajasthan1 India/Rajasthan/Rajasthan2  
India/Rajasthan/Rajasthan3  
[sentinel@localhost ~]$ touch India/Delhi/Delhi1 India/Delhi/Delhi2 India/Delhi/  
Delhi3  
[sentinel@localhost ~]$ tree India/  
India/  
├── Delhi  
│   ├── Delhi1  
│   ├── Delhi2  
│   └── Delhi3  
├── Gujarat  
│   ├── gujarat2  
│   ├── gujrat1  
│   └── gujrat3  
├── Rajasthan  
│   ├── Rajasthan1  
│   ├── Rajasthan2  
│   └── Rajasthan3  
└── UP  
    └── UP1
```

2. One more directory Delhi_Copy contains files copied from the Delhi directory.

Command: `mkdir India/Delhi_Copy , cp India/Delhi/* India/Delhi_Copy`

```
sentinel@localhost:~/India/Delhi_Copy
File Edit View Search Terminal Help
[sentinel@localhost ~]$ mkdir India/Delhi_Copy
[sentinel@localhost ~]$ cp India/Delhi/* /home/sentinel/India/Delhi_Copy/
[sentinel@localhost ~]$ cd India/Delhi_Copy/
[sentinel@localhost Delhi_Copy]$ ls
Delhi1 Delhi2 Delhi3
[sentinel@localhost Delhi_Copy]$ S
```

3. One more directory Gujarat_Move contains the files moved from Gujarat directory.

Command: `mkdir India/Gujarat_Move , mv India/Gujarat/* India/Gujarat_Move`

```
sentinel@localhost:~/India/Gujarat_Move
File Edit View Search Terminal Help
[sentinel@localhost ~]$ mkdir India/Gujarat_Move
[sentinel@localhost ~]$ mv India/Gujarat/* India/Gujarat_Move
[sentinel@localhost ~]$ cd India/Gujarat_Move/
[sentinel@localhost Gujarat_Move]$ ls
gujarat2 gujrat1 gujrat3
[sentinel@localhost Gujarat_Move]$
```

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

Command: `cp -r India/UP /tmp ; cp -r India/Rajasthan /tmp`

```
sentinel@localhost:/tmp
File Edit View Search Terminal Help
[sentinel@localhost ~]$ cp -r India/UP /tmp ; cp -r India/Rajasthan /tmp
[sentinel@localhost ~]$ cd /tmp/
[sentinel@localhost tmp]$ ls
Rajasthan
systemd-private-e62e5e94b9fd40b79506beac4ccdfd50-chrond.service-p31Ww9
systemd-private-e62e5e94b9fd40b79506beac4ccdfd50-colord.service-YxoknL
systemd-private-e62e5e94b9fd40b79506beac4ccdfd50-fwupd.service-Y17gdz
systemd-private-e62e5e94b9fd40b79506beac4ccdfd50-ModemManager.service-8V05To
systemd-private-e62e5e94b9fd40b79506beac4ccdfd50-rtkit-daemon.service-KV5pYH
tracker-extract-files.1000
UP
VMwareDnD
vmware-root_844-2688685076
vmware-root_845-4021653450
vmware-root_870-2731086752
[sentinel@localhost tmp]$ ls Rajasthan/
Rajasthan1 Rajasthan2 Rajasthan3
[sentinel@localhost tmp]$ ls UP/
UP1 UP2 UP3
[sentinel@localhost tmp]$ _
```

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

Command: `rm -r India`



```
sentinel@localhost:~  
File Edit View Search Terminal Help  
[sentinel@localhost ~]$ rm -r India  
[sentinel@localhost ~]$ ls  
Desktop  Downloads  go      Pictures  Templates  Videos  
Documents glob      Music   Public    test  
[sentinel@localhost ~]$
```