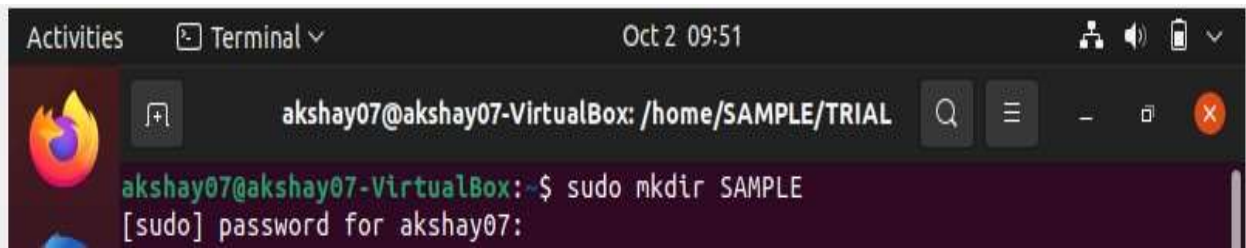


**NETWORKING & SYSTEM
ADMINISTRATION LAB MODEL EXAM
MODEL EXAM**

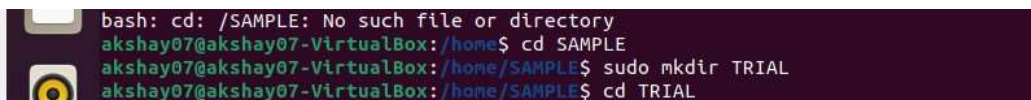
**Akshay Murali
Roll no: 07
RMCA-A BATCH**

1. Create a directory SAMPLE under your home directory



```
akshay07@akshay07-VirtualBox: /home/SAMPLE/TRIAL
akshay07@akshay07-VirtualBox:~$ sudo mkdir SAMPLE
[sudo] password for akshay07:
```

2. Create a sub-directory by name TRIAL under SAMPLE.



```
bash: cd: /SAMPLE: No such file or directory
akshay07@akshay07-VirtualBox: /home$ cd SAMPLE
akshay07@akshay07-VirtualBox: /home/SAMPLE$ sudo mkdir TRIAL
akshay07@akshay07-VirtualBox: /home/SAMPLE$ cd TRIAL
```

3. Create file1, file2, file3, file4, file5, file6 under TRIAL directory using a single command.



```
akshay07@akshay07-VirtualBox: /home/SAMPLE$ cd TRIAL
akshay07@akshay07-VirtualBox: /home/SAMPLE/TRIAL$ sudo touch file1.txt file2.txt
file3.txt file4.txt file5.txt file6.txt
```

4. Create files myfile and yourfile under Present Working Directory.



```
file3.txt file4.txt file5.txt file6.txt
akshay07@akshay07-VirtualBox: /home/SAMPLE/TRIAL$ sudo touch myfile.txt yourfile
.txt
```

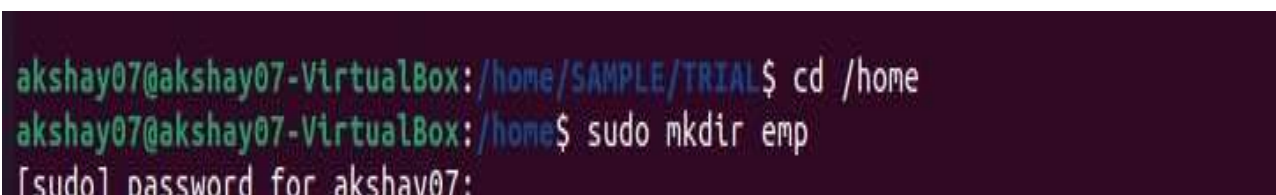
5. Display the contents in myfile and yourfile.



```
akshay07@akshay07-VirtualBox: /home/SAMPLE/TRIAL$ sudo gedit myfile.txt
^C
akshay07@akshay07-VirtualBox: /home/SAMPLE/TRIAL$ cat myfile.txt
my name is akshay murali

akshay07@akshay07-VirtualBox: /home/SAMPLE/TRIAL$ sudo gedit yourfile.txt
^C
akshay07@akshay07-VirtualBox: /home/SAMPLE/TRIAL$ cat yourfile.txt
i am studying in amal jyothi college of engineering
```

6. Copy myfile file to emp



```
akshay07@akshay07-VirtualBox: /home/SAMPLE/TRIAL$ cd /home
akshay07@akshay07-VirtualBox: /home$ sudo mkdir emp
[sudo] password for akshay07:
```

7. Create a supplementary group called Collegewith a group id 30000.Check group is created or not.

```
akshay07@akshay07-VirtualBox:/home/SAMPLE/TRIAL$ sudo groupadd -g 30000 College
[sudo] password for akshay07:
groupadd: GID '30000' already exists
akshay07@akshay07-VirtualBox:/home/SAMPLE/TRIAL$ sudo groupdel shakesphere
akshay07@akshay07-VirtualBox:/home/SAMPLE/TRIAL$ sudo groupadd -g 30000 College
```

8.Execute the following commands and write their output

a.Ping

```
akshay07@akshay07-VirtualBox:/home/SAMPLE/TRIAL$ ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
^C
--- 8.8.8.8 ping statistics ---
12 packets transmitted, 0 received, 100% packet loss, time 11268ms
```

b.Traceroute

```
akshay07@akshay07-VirtualBox:/home/SAMPLE/TRIAL$ traceroute 8.8.8.8
traceroute to 8.8.8.8 (8.8.8.8), 30 hops max, 60 byte packets
 1  _gateway (10.0.2.2)  0.250 ms  0.184 ms  0.166 ms
 2  * * *
 3  * * *
 4  * * *
 5  * * *
 6  * * *
 7  * * *
 8  * * *
 9  * * *
10  * * *
11  * * *
12  * * *
13  * * *
14  * * *
15  * * *
16  * * *
17  * * *
18  * * *
19  * * *
20  * * *
21  * * *
22  * * *
```

c.Netstat

```
akshay07@akshay07-VirtualBox: /home/SAMPLE/TRIAL$ netstat -t
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
```

d.Ifconfig

```
akshay07@akshay07-VirtualBox: /home/SAMPLE/TRIAL$ ifconfig -a
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::e039:15f3:471e:c364 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:f5:e7:35 txqueuelen 1000 (Ethernet)
    RX packets 581 bytes 263658 (263.6 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 697 bytes 83123 (83.1 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 313 bytes 27927 (27.9 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 313 bytes 27927 (27.9 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

e.tcpdump

[illegible]