ROLL NO:- 243557

SOLUTION QUES 1:-


```
sambashare:x:136:dbda
red:x:1001:apple,banana,cat,dog,elephant
blue:x:1002:fish,gun,horse,icecream
green:x:1003:jelly,kitkat,lolipop,marshmallow
orange:x:1004:new,oppo,vivo,china
```
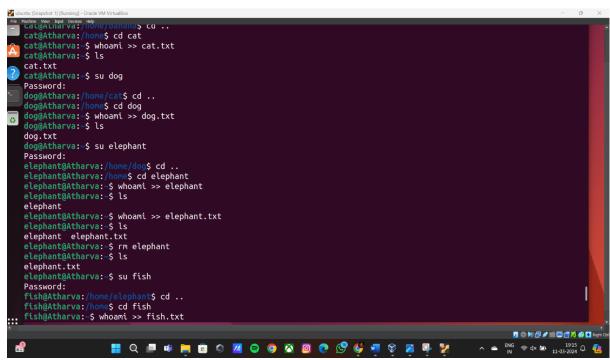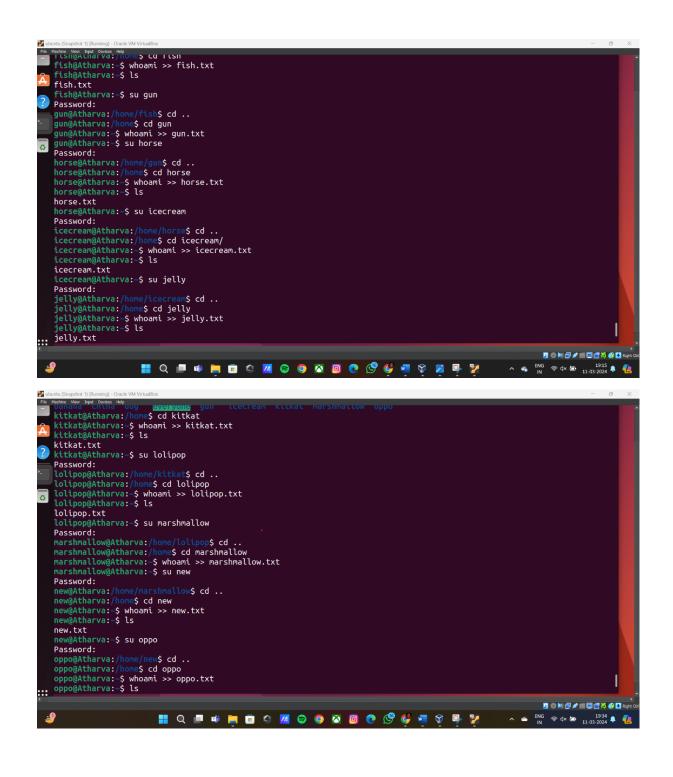
SOLUTION QUES 2:-
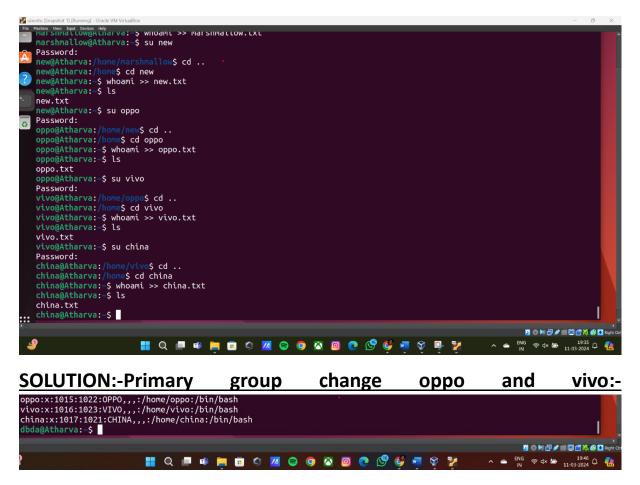


```
drwxr-x---   2 jelly     jelly      4096 Mar 11 18:45 jelly
dbda@Atharva:/home$ sudo chmod 777 everyone
dbda@Atharva:/home$ ls -l
total 48
drwxr-x---   2 apple     apple      4096 Mar 11 18:39 apple
drwxr-x---   2 banana    banana     4096 Mar 11 18:39 banana
drwxr-x---   2 cat       cat        4096 Mar 11 18:40 cat
drwxr-x--- 14 dbda      dbda       4096 Mar 11 18:35 dbda
drwxr-x---   2 dog       dog        4096 Mar 11 18:40 dog
drwxr-x---   2 elephant  elephant   4096 Mar 11 18:41 elephant
drwxrwxrwx   2 root      root       4096 Mar 11 18:54 everyone
drwxr-x---   2 fish      fish       4096 Mar 11 18:42 fish
drwxr-x---   2 gun       gun        4096 Mar 11 18:43 gun
drwxr-x---   2 horse     horse      4096 Mar 11 18:43 horse
drwxr-x---   2 icecream  icecream   4096 Mar 11 18:44 icecream
drwxr-x---   2 jelly     jelly      4096 Mar 11 18:45 jelly
dbda@Atharva:/home$
```

SOLUTION QUES 1 B):-


```
apple@Atharva:/home/everyone$ ls
apple.txt
apple@Atharva:/home/everyone$ su banana
Password:
banana@Atharva:/home/everyone$ cd ..
banana@Atharva:/home$ cd banana
banana@Atharva:~$ whoami
banana
banana@Atharva:~$ cd ..
banana@Atharva:/home$ ls
apple    cat    dog    everyone    gun    icecream
banana   dbda   elephant   fish         horse   jelly
banana@Atharva:/home$ cd banana
banana@Atharva:~$ whoami >> banana.txt
banana@Atharva:~$ ls
banana.txt
banana@Atharva:~$
```



```
cat@Atharva:/home/banana$ cd ..
cat@Atharva:/home$ cd cat
cat@Atharva:~$ whoami >> cat.txt
cat@Atharva:~$ ls
cat.txt
cat@Atharva:~$ su dog
Password:
dog@Atharva:/home/cat$ cd ..
dog@Atharva:/home$ cd dog
dog@Atharva:~$ whoami >> dog.txt
dog@Atharva:~$ ls
dog.txt
dog@Atharva:~$ su elephant
Password:
elephant@Atharva:/home/dog$ cd ..
elephant@Atharva:/home$ cd elephant
elephant@Atharva:~$ whoami >> elephant
elephant@Atharva:~$ ls
elephant
elephant@Atharva:~$ whoami >> elephant.txt
elephant@Atharva:~$ ls
elephant  elephant.txt
elephant@Atharva:~$ rm elephant
elephant@Atharva:~$ ls
elephant.txt
elephant@Atharva:~$ su fish
Password:
fish@Atharva:/home/elephant$ cd ..
fish@Atharva:/home$ cd fish
fish@Atharva:~$ whoami >> fish.txt
```

```
fish@Atharva:/home$ cd fish
fish@Atharva:~$ whoami >> fish.txt
fish@Atharva:~$ ls
fish.txt
fish@Atharva:~$ su gun
Password:
gun@Atharva:/home/fish$ cd ..
gun@Atharva:/home$ cd gun
gun@Atharva:~$ whoami >> gun.txt
gun@Atharva:~$ su horse
Password:
horse@Atharva:/home/gun$ cd ..
horse@Atharva:/home$ cd horse
horse@Atharva:~$ whoami >> horse.txt
horse@Atharva:~$ ls
horse.txt
horse@Atharva:~$ su icecream
Password:
icecream@Atharva:/home/horse$ cd ..
icecream@Atharva:/home$ cd icecream/
icecream@Atharva:~$ whoami >> icecream.txt
icecream@Atharva:~$ ls
icecream.txt
icecream@Atharva:~$ su jelly
Password:
jelly@Atharva:/home/icecream$ cd ..
jelly@Atharva:/home$ cd jelly
jelly@Atharva:~$ whoami >> jelly.txt
jelly@Atharva:~$ ls
jelly.txt
```

```
banana  chcha  dog  everyone  gun  icecream  kitkat  marshmallow  oppo
kitkat@Atharva:/home$ cd kitkat
kitkat@Atharva:~$ whoami >> kitkat.txt
kitkat@Atharva:~$ ls
kitkat.txt
kitkat@Atharva:~$ su lolipop
Password:
lolipop@Atharva:/home/kitkat$ cd ..
lolipop@Atharva:/home$ cd lolipop
lolipop@Atharva:~$ whoami >> lolipop.txt
lolipop@Atharva:~$ ls
lolipop.txt
lolipop@Atharva:~$ su marshmallow
Password:
marshmallow@Atharva:/home/lolipop$ cd ..
marshmallow@Atharva:/home$ cd marshmallow
marshmallow@Atharva:~$ whoami >> marshmallow.txt
marshmallow@Atharva:~$ su new
Password:
new@Atharva:/home/marshmallow$ cd ..
new@Atharva:/home$ cd new
new@Atharva:~$ whoami >> new.txt
new@Atharva:~$ ls
new.txt
new@Atharva:~$ su oppo
Password:
oppo@Atharva:/home/new$ cd ..
oppo@Atharva:/home$ cd oppo
oppo@Atharva:~$ whoami >> oppo.txt
oppo@Atharva:~$ ls
```

```
marshmallow@Atharva:~$ whoami >> Marshmallow.txt
marshmallow@Atharva:~$ su new
Password:
new@Atharva:/home/marshmallow$ cd ..
new@Atharva:/home$ cd new
new@Atharva:~$ whoami >> new.txt
new@Atharva:~$ ls
new.txt
new@Atharva:~$ su oppo
Password:
oppo@Atharva:/home/new$ cd ..
oppo@Atharva:/home$ cd oppo
oppo@Atharva:~$ whoami >> oppo.txt
oppo@Atharva:~$ ls
oppo.txt
oppo@Atharva:~$ su vivo
Password:
vivo@Atharva:/home/oppo$ cd ..
vivo@Atharva:/home$ cd vivo
vivo@Atharva:~$ whoami >> vivo.txt
vivo@Atharva:~$ ls
vivo.txt
vivo@Atharva:~$ su china
Password:
china@Atharva:/home/vivo$ cd ..
china@Atharva:/home$ cd china
china@Atharva:~$ whoami >> china.txt
china@Atharva:~$ ls
china.txt
china@Atharva:~$
```

SOLUTION:-Primary group change oppo and vivo:-

```
oppo:x:1015:1022:OPPO,,,:/home/oppo:/bin/bash
vivo:x:1016:1023:VIVO,,,:/home/vivo:/bin/bash
china:x:1017:1021:CHINA,,,:/home/china:/bin/bash
dbda@Atharva:~$
```

SOLUTION:-jelly kitkat lolipop marshmallow added to sudo group:-

```
sudo:x:27:dbda,jelly,kitkat,lolipop,marshmallow
audio:x:29:pulse
dip:x:30:dbda
www-data:x:33:
```

SOLUTION:- fish and gun added to one group

```
one:x:1022:fish,gun
two:x:1023:
root@Atharva:/home/dbda#
```

SOLUTION q2) a):-

```
dbda@Atharva:~/demo$ head -n 15 number.txt
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
dbda@Atharva:~/demo$
```

SOLUTION q2) b):-

```
dbda@Atharva:~/demo$ tail number.txt
41
42
43
44
45
46
47
48
49
50
dbda@Atharva:~/demo$
```

SOLUTION q2) c):-

```
ubuntu (Snapshot 1) [Running] - Oracle VM VirtualBox
File  Machine  View  Input  Devices  Help
50
dbda@Atharva:~/demo$ tac number.txt
50
49
48
47
46
45
44
43
42
41
40
39
38
37
36
35
34
33
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
```

SOLUTION q2) d):-

```
dbda@Atharva:~/demo$ cat number.txt | grep '4'
4
14
24
34
40
41
42
43
44
45
46
47
48
49
dbda@Atharva:~/demo$
```

SOLUTION q3) a,b,c):-

```
dbda@Atharva:~/demo$ cat student.txt
Rollno:name:marks
1111:Ram:87
2222:Sham:69
3333:Teena:58
4444:Priya:74
dbda@Atharva:~/demo$ cat student.txt | grep 'Sham'
2222:Sham:69
dbda@Atharva:~/demo$ cat student.txt | grep 'Priya' | cut -d ':' -f3
74
dbda@Atharva:~/demo$ wc -l student.txt
5 student.txt
dbda@Atharva:~/demo$
```