



LINUX COMMANDS

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The background of the slide is a decorative pattern of small, colorful dots. These dots are arranged in a grid-like fashion, with colors including red, yellow, green, blue, purple, and pink. The dots are slightly blurred and have a soft glow, giving the background a dynamic and modern feel.

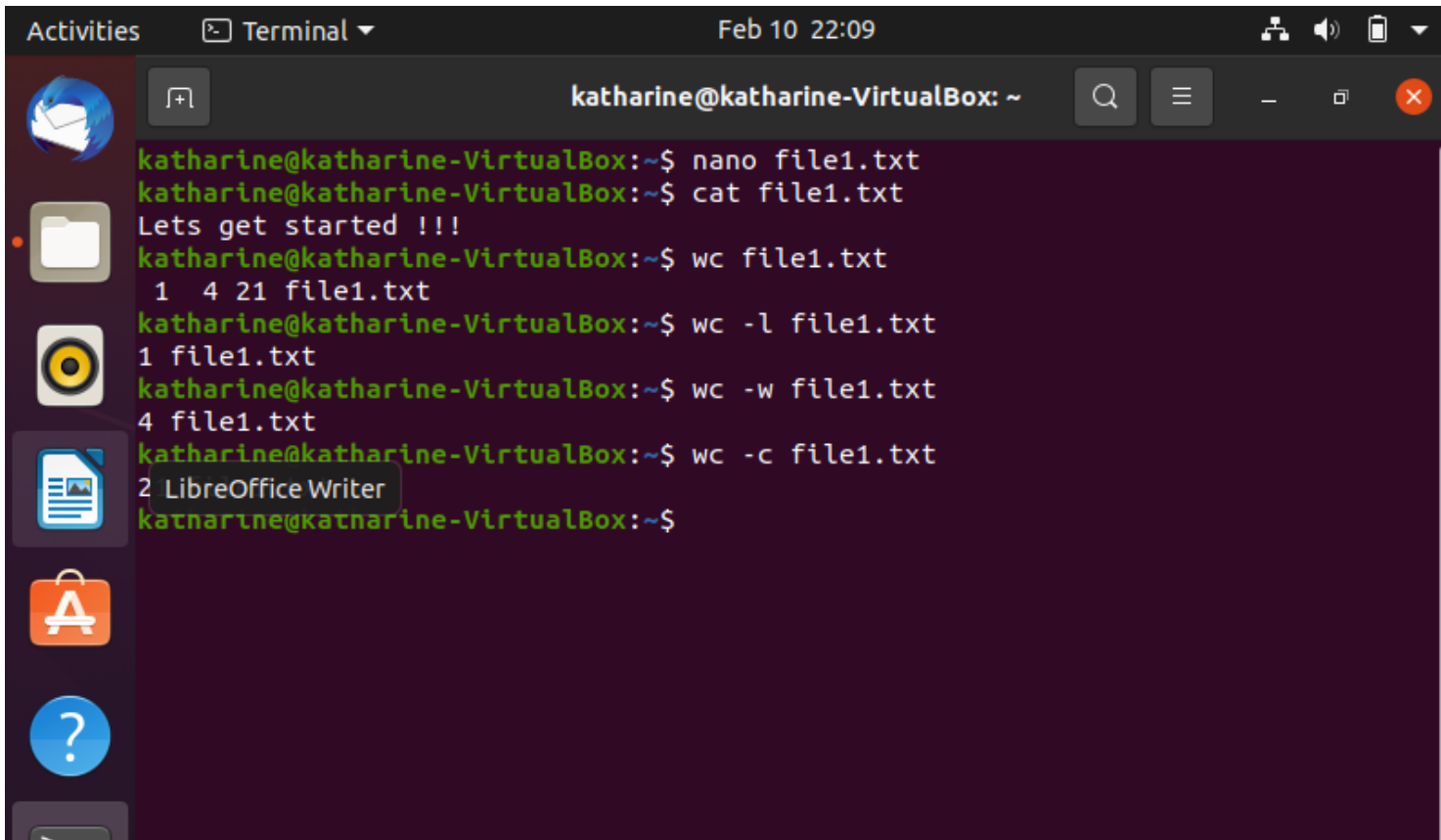
FILE CREATION AND EDITING

CREATING FILES

```
Katharine@katharine-VirtualBox:~$ touch file2.txt file3.txt
Katharine@katharine-VirtualBox:~$ ls -l
total 64
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Desktop
drwxrwxr-- 2 katharine katharine 4096 Feb 10 16:39 dir1
drwxrwxr-x 2 katharine katharine 4096 Feb 10 16:39 dir2
drwxrwxr-x 2 katharine katharine 4096 Feb 10 16:39 dir3
drwxrwxr-x 2 katharine katharine 4096 Feb 10 14:53 docs
drwxr-xr-x 8 katharine katharine 4096 Feb 10 17:41 Documents
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Downloads
-rw-rw-r-- 1 katharine katharine 0 Feb 10 22:04 file1.txt
---xrw-r-- 1 katharine katharine 41 Feb 10 17:21 file2
-rw-rw-r-- 1 katharine katharine 0 Feb 10 22:04 file2.txt
-rw-rw---- 1 katharine katharine 25 Feb 10 17:25 file3
-rw-rw-r-- 1 katharine katharine 0 Feb 10 22:04 file3.txt
drwxrwx--- 2 katharine katharine 4096 Feb 10 16:51 masktest.txt
dHelp xr-x 2 katharine katharine 4096 Feb 10 12:57 Music
d xr-x 2 katharine katharine 4096 Feb 10 12:57 Pictures
drwxr-xr-x 3 katharine katharine 4096 Feb 10 17:47 Public
drwxrwxr-x 2 katharine katharine 4096 Feb 10 14:55 temp
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Templates
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Videos
Katharine@katharine-VirtualBox:~$
```

→ touch file1.txt file2.txt
file3.txt
→ ls

EDITING FILES



The screenshot shows a terminal window titled "katharine@katharine-VirtualBox: ~" with a search icon, menu icon, and window control buttons. The terminal output is as follows:

```
katharine@katharine-VirtualBox:~$ nano file1.txt
katharine@katharine-VirtualBox:~$ cat file1.txt
Lets get started !!!
katharine@katharine-VirtualBox:~$ wc file1.txt
 1  4 21 file1.txt
katharine@katharine-VirtualBox:~$ wc -l file1.txt
1 file1.txt
katharine@katharine-VirtualBox:~$ wc -w file1.txt
4 file1.txt
katharine@katharine-VirtualBox:~$ wc -c file1.txt
2 LibreOffice Writer
katharine@katharine-VirtualBox:~$
```

On the left side of the terminal window, there is a vertical dock with several application icons: a blue circle with a white bird, a folder icon, a yellow circle with a black dot, a document icon, an orange shopping bag, and a blue circle with a white question mark.

→ nano file1.txt (& enter text (ctrl+s, ctrl+x))

→ cat file1.txt (displays file1.txt)

MOVING A FILE

```
katharine@katharine-VirtualBox: ~  
katharine@katharine-VirtualBox:~$ cat file1.txt  
Lets get started !!!  
katharine@katharine-VirtualBox:~$ touch file3.txt  
katharine@katharine-VirtualBox:~$ cp file1.txt file3.txt  
katharine@katharine-VirtualBox:~$ cat file3.txt  
Lets get started !!!  
katharine@katharine-VirtualBox:~$ touch file11.txt  
katharine@katharine-VirtualBox:~$ mv file1.txt file11.txt  
katharine@katharine-VirtualBox:~$ cat file1.txt  
cat: file1.txt: No such file or directory  
katharine@katharine-VirtualBox:~$ ls -l  
total 72  
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Desktop  
drwxrwxr-- 2 katharine katharine 4096 Feb 10 16:39 dir1  
drwxrwxr-x 2 katharine katharine 4096 Feb 10 16:39 dir2  
drwxrwxr-x 2 katharine katharine 4096 Feb 10 16:39 dir3  
drwxrwxr-x 2 katharine katharine 4096 Feb 10 14:53 docs  
drwxr-xr-x 8 katharine katharine 4096 Feb 10 17:41 Documents  
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Downloads  
-rw-rw-r-- 1 katharine katharine 21 Feb 10 22:07 file11.txt  
---xrw-r-- 1 katharine katharine 41 Feb 10 17:21 file2  
-rw-rw-r-- 1 katharine katharine 0 Feb 10 22:04 file2.txt
```

→mv filename1 filename2

TO REMOVE A FILE :

→rm filename

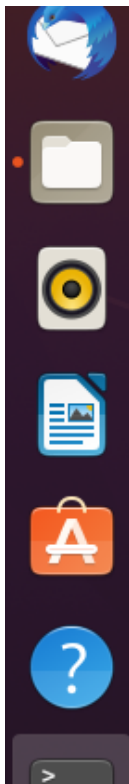
TO COPY A FILE :

→cp filename1 filename2



DEFINING PATHS

TWO KINDS OF PATHS



```
katharine@katharine-VirtualBox:~$ cd Documents
katharine@katharine-VirtualBox:~/Documents$ mkdir docs1
katharine@katharine-VirtualBox:~/Documents$ ls
docs1
katharine@katharine-VirtualBox:~/Documents$ cd docs1
katharine@katharine-VirtualBox:~/Documents/docs1$ touch results.txt
katharine@katharine-VirtualBox:~/Documents/docs1$ ls
results.txt
katharine@katharine-VirtualBox:~/Documents/docs1$ nano results.txt
katharine@katharine-VirtualBox:~/Documents/docs1$ cat results.txt
You have Passed
Congrats!!!!
katharine@katharine-VirtualBox:~/Documents/docs1$ cd ../../
katharine@katharine-VirtualBox:~$ cd Public
katharine@katharine-VirtualBox:~/Public$ mkdir list
katharine@katharine-VirtualBox:~/Public$ ls
list  pub1
katharine@katharine-VirtualBox:~/Public$ cd list
katharine@katharine-VirtualBox:~/Public/list$ touch grocerylist.txt
katharine@katharine-VirtualBox:~/Public/list$ ls
grocerylist.txt
katharine@katharine-VirtualBox:~/Public/list$ cd ../../
katharine@katharine-VirtualBox:~$
```

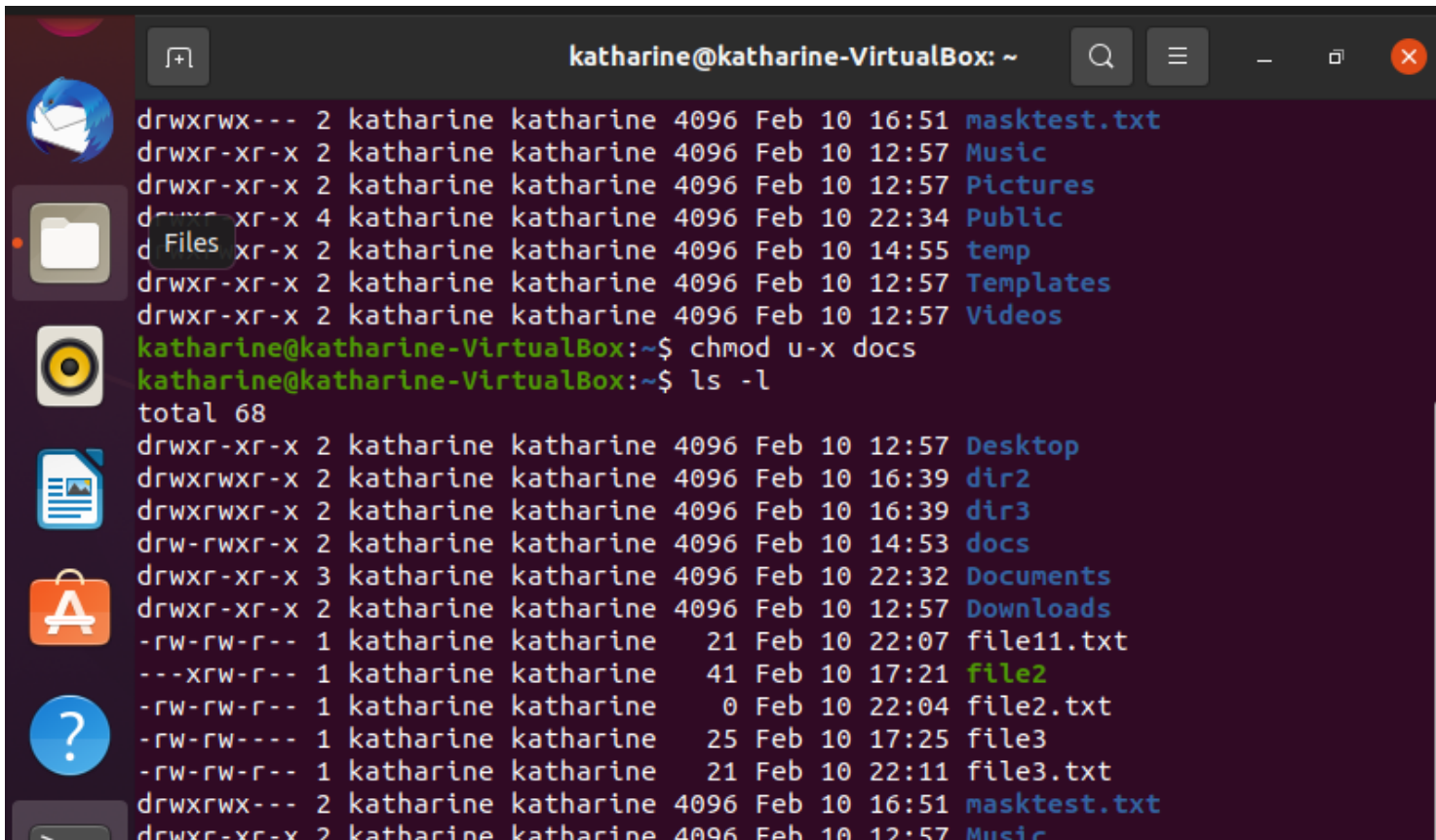
1. Absolute

2. Relative



PERMISSION GRANTS

THE 3 LEVELS OF PERMISSIONS



A terminal window titled 'katharine@katharine-VirtualBox: ~' showing a list of files and directories with their permissions, owner, group, size, and date. The files are: masktest.txt, Music, Pictures, Public, temp, Templates, and Videos. The user 'katharine' has run the command 'chmod u-x docs' and 'ls -l'. The output shows the permissions for the files and directories, including Desktop, dir2, dir3, docs, Documents, Downloads, file11.txt, file2, file2.txt, file3, file3.txt, masktest.txt, and Music.

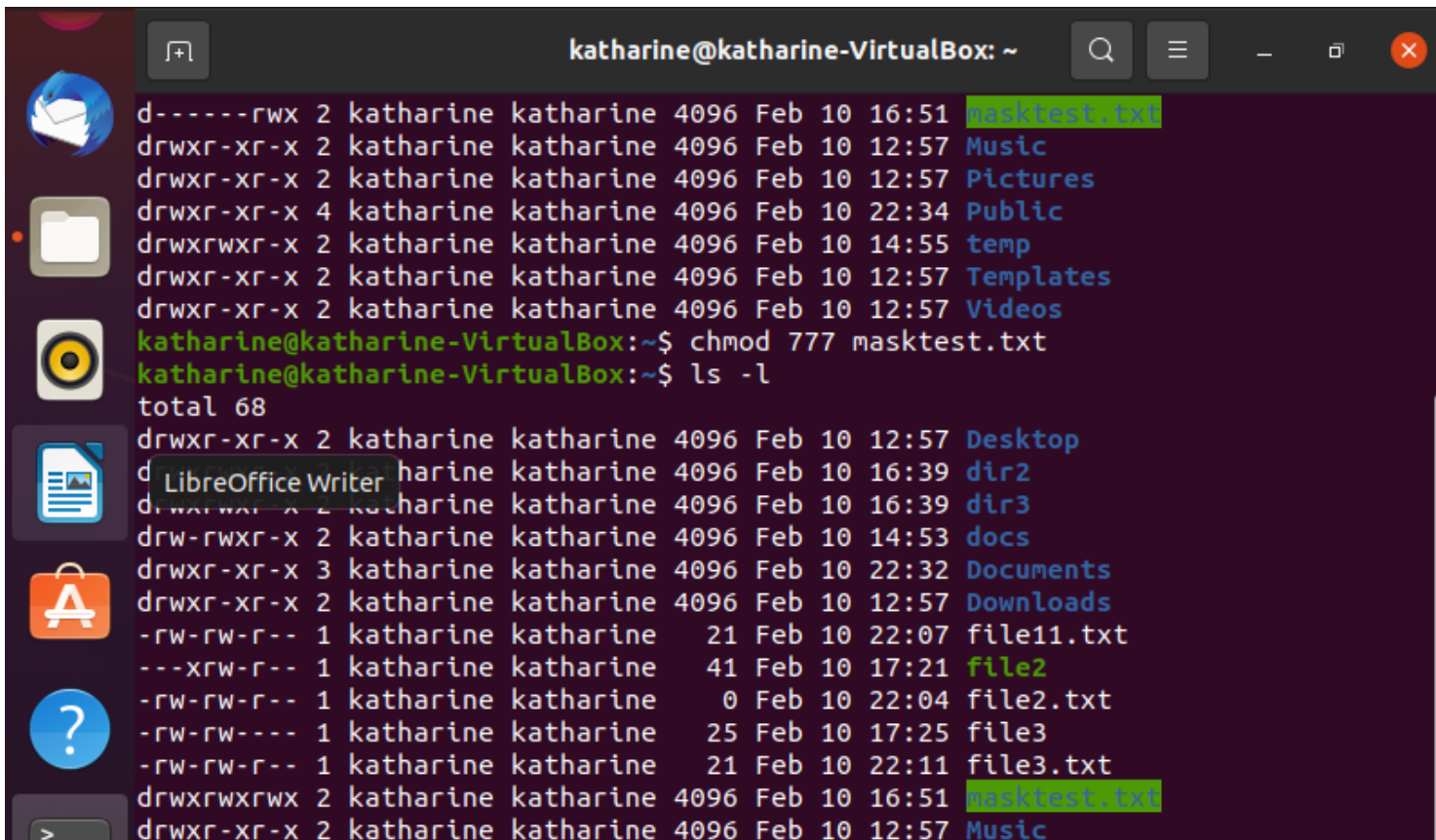
```
katharine@katharine-VirtualBox: ~  
drwxrwx--- 2 katharine katharine 4096 Feb 10 16:51 masktest.txt  
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Music  
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Pictures  
drwxr-xr-x 4 katharine katharine 4096 Feb 10 22:34 Public  
d Files xr-x 2 katharine katharine 4096 Feb 10 14:55 temp  
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Templates  
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Videos  
katharine@katharine-VirtualBox:~$ chmod u-x docs  
katharine@katharine-VirtualBox:~$ ls -l  
total 68  
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Desktop  
drwxrwxr-x 2 katharine katharine 4096 Feb 10 16:39 dir2  
drwxrwxr-x 2 katharine katharine 4096 Feb 10 16:39 dir3  
drw-rwxr-x 2 katharine katharine 4096 Feb 10 14:53 docs  
drwxr-xr-x 3 katharine katharine 4096 Feb 10 22:32 Documents  
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Downloads  
-rw-rw-r-- 1 katharine katharine 21 Feb 10 22:07 file11.txt  
---xrw-r-- 1 katharine katharine 41 Feb 10 17:21 file2  
-rw-rw-r-- 1 katharine katharine 0 Feb 10 22:04 file2.txt  
-rw-rw--- 1 katharine katharine 25 Feb 10 17:25 file3  
-rw-rw-r-- 1 katharine katharine 21 Feb 10 22:11 file3.txt  
drwxrwx--- 2 katharine katharine 4096 Feb 10 16:51 masktest.txt  
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Music
```

1. Owner Permission

2. Group Permission

3. Other World Permission

METHODS TO CHANGE THE MODE OF PERMISSION



A terminal window titled 'katharine@katharine-VirtualBox: ~' showing a list of files and directories with their permissions. The files listed are: masktest.txt (permissions d-----rwx), Music (drwxr-xr-x), Pictures (drwxr-xr-x), Public (drwxr-xr-x), temp (drwxrwxr-x), Templates (drwxr-xr-x), and Videos (drwxr-xr-x). The user then runs the command 'chmod 777 masktest.txt'. After running 'ls -l', the file masktest.txt is shown with permissions drwxrwxrwx. Other files listed include Desktop (drwxr-xr-x), dir2 (d-----rwx), dir3 (d-----rwx), docs (drw-rwxr-x), Documents (drwxr-xr-x), Downloads (drwxr-xr-x), file11.txt (-rw-rw-r--), file2 (---xrw-r--), file2.txt (-rw-rw-r--), file3 (-rw-rw----), file3.txt (-rw-rw-r--), and another instance of masktest.txt (drwxrwxrwx) and Music (drwxr-xr-x).

```
katharine@katharine-VirtualBox: ~  
d-----rwx 2 katharine katharine 4096 Feb 10 16:51 masktest.txt  
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Music  
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Pictures  
drwxr-xr-x 4 katharine katharine 4096 Feb 10 22:34 Public  
drwxrwxr-x 2 katharine katharine 4096 Feb 10 14:55 temp  
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Templates  
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Videos  
katharine@katharine-VirtualBox:~$ chmod 777 masktest.txt  
katharine@katharine-VirtualBox:~$ ls -l  
total 68  
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Desktop  
d-----rwx 2 katharine katharine 4096 Feb 10 16:39 dir2  
d-----rwx 2 katharine katharine 4096 Feb 10 16:39 dir3  
drw-rwxr-x 2 katharine katharine 4096 Feb 10 14:53 docs  
drwxr-xr-x 3 katharine katharine 4096 Feb 10 22:32 Documents  
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Downloads  
-rw-rw-r-- 1 katharine katharine 21 Feb 10 22:07 file11.txt  
---xrw-r-- 1 katharine katharine 41 Feb 10 17:21 file2  
-rw-rw-r-- 1 katharine katharine 0 Feb 10 22:04 file2.txt  
-rw-rw---- 1 katharine katharine 25 Feb 10 17:25 file3  
-rw-rw-r-- 1 katharine katharine 21 Feb 10 22:11 file3.txt  
drwxrwxrwx 2 katharine katharine 4096 Feb 10 16:51 masktest.txt  
drwxr-xr-x 2 katharine katharine 4096 Feb 10 12:57 Music
```

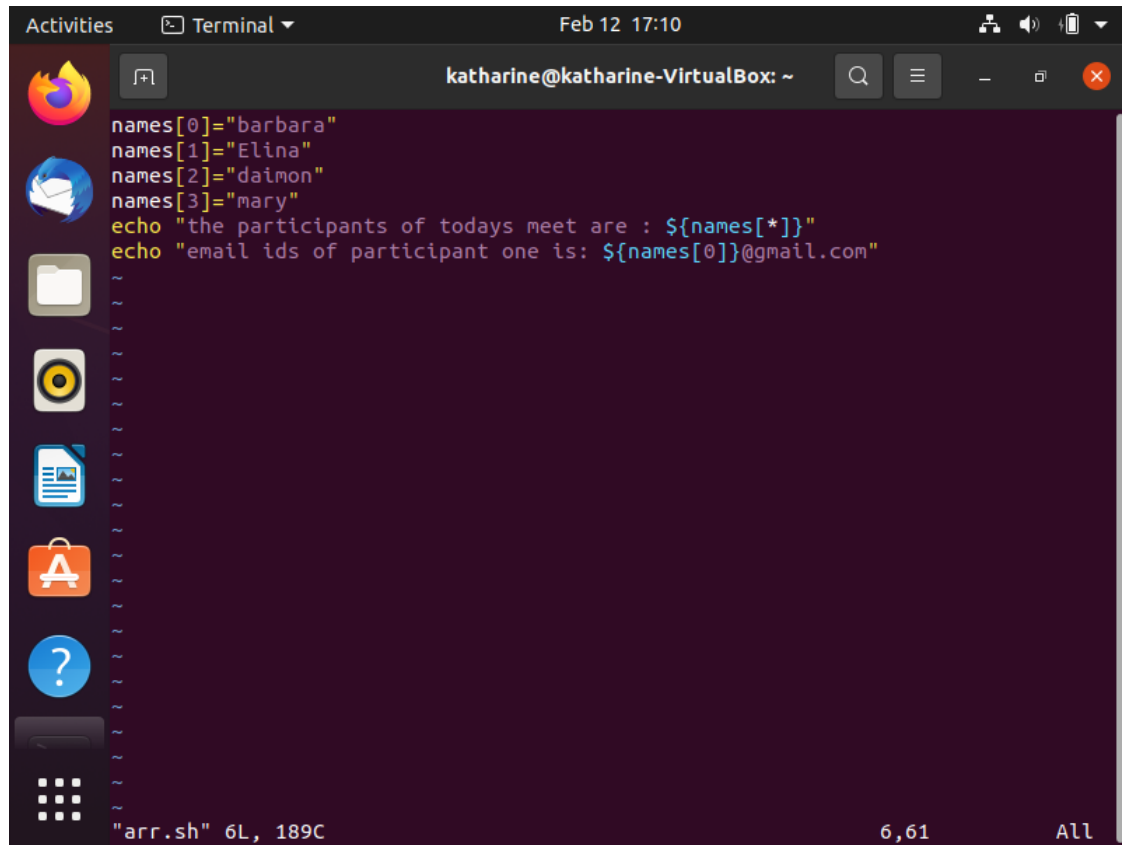
1. Symbolic Method

2. Absolute Method

SPECIAL VARIABLES

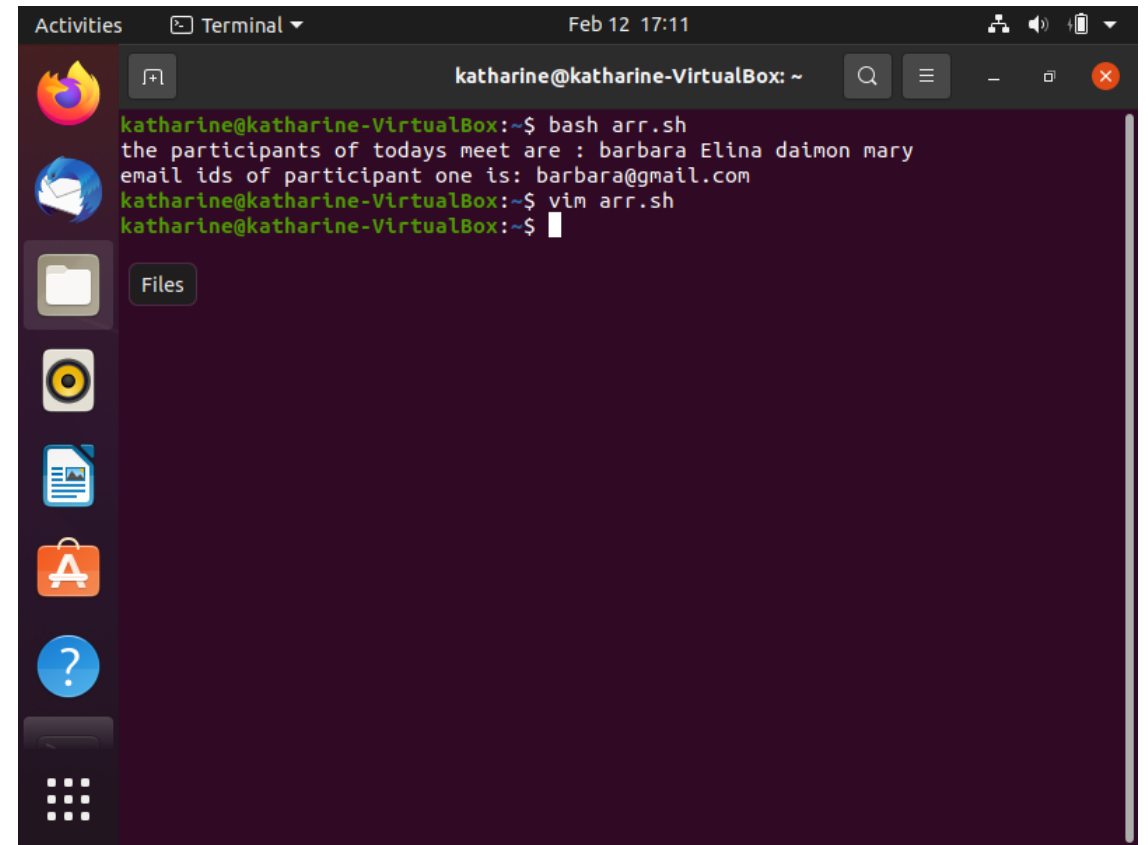
```
Activities Terminal Feb 12 09:11
katharine@katharine-VirtualBox: ~
katharine@katharine-VirtualBox:~$ vim splvar.sh
katharine@katharine-VirtualBox:~$ sh splvar.sh DevOps
current file name is splvar.sh
First parameter is DevOps
Second parameter is
Third parameter is
Quoted parameter is DevOps
Quoted parameter is DevOps
total count of parameter 1
katharine@katharine-VirtualBox:~$ sh splvar.sh DevOps Engineers
current file name is splvar.sh
First parameter is DevOps
Second parameter is Engineers
Third parameter is
Quoted parameter is DevOps Engineers
Quoted parameter is DevOps Engineers
total count of parameter 2
katharine@katharine-VirtualBox:~$ sh splvar.sh DevOps Engineers R
sh splvar.sh DevOps Engineers Rockssh splvar.sh DevOps Engineers
current file name is splvar.sh
First parameter is DevOps
Second parameter is Engineers
Third parameter is Rockssh
Quoted parameter is DevOps Engineers Rockssh splvar.sh DevOps Eng
Quoted parameter is DevOps Engineers Rockssh splvar.sh DevOps Eng
total count of parameter 6
katharine@katharine-VirtualBox:~$
```

SHELL ARRAYS



```
katharine@katharine-VirtualBox: ~  
names[0]="barbara"  
names[1]="Elina"  
names[2]="daimon"  
names[3]="mary"  
echo "the participants of todays meet are : ${names[*]}"  
echo "email ids of participant one is: ${names[0]}@gmail.com"
```

"arr.sh" 6L, 189C 6,61 All



```
katharine@katharine-VirtualBox: ~$ bash arr.sh  
the participants of todays meet are : barbara Elina daimon mary  
email ids of participant one is: barbara@gmail.com  
katharine@katharine-VirtualBox:~$ vim arr.sh  
katharine@katharine-VirtualBox:~$
```

Files

SHELL OPERATORS(ARITHMETIC)

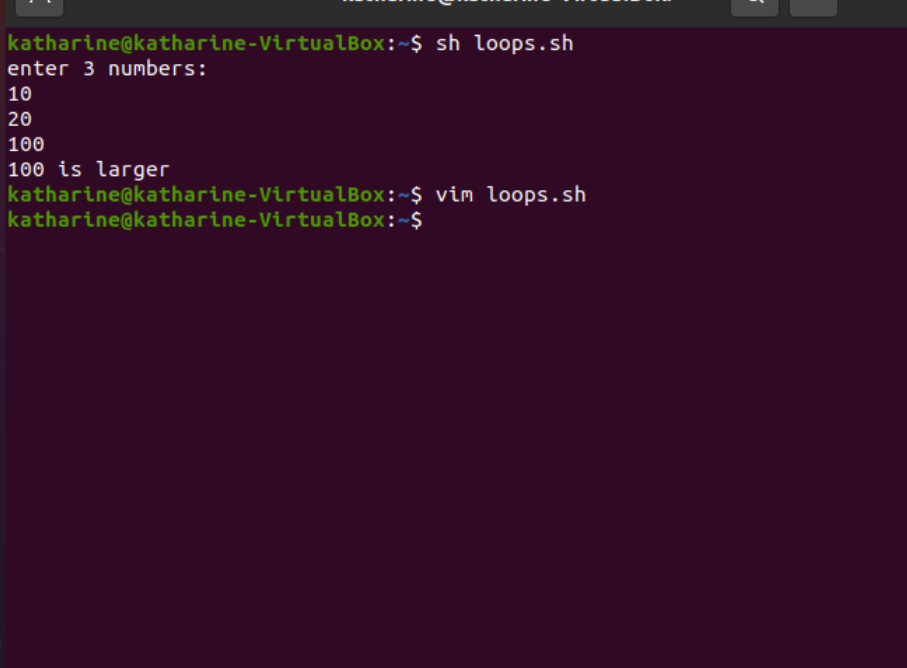
```
Activities Terminal Feb 12 17:19
katharine@katharine-VirtualBox: ~
katharine@katharine-VirtualBox:~$ sh arith.sh
Enter first no:
40
Enter second no:
4
sum is : 44
Difference is : 36
quotent is : 10
product is : 160
katharine@katharine-VirtualBox:~$
```

```
Activities Terminal Feb 12 17:19
katharine@katharine-VirtualBox: ~
echo "Enter first no: "
read a
Thunderbird Mail
eond no: "
read b

echo "sum is : `expr $a + $b `"
echo "Difference is : `expr $a - $b `"
echo "quotent is : `expr $a / $b `"
echo "product is : `expr $a \* $b `"

-- INSERT -- 9,30 All
```


SHELL LOOPS(IF-ELIF-ELSE)

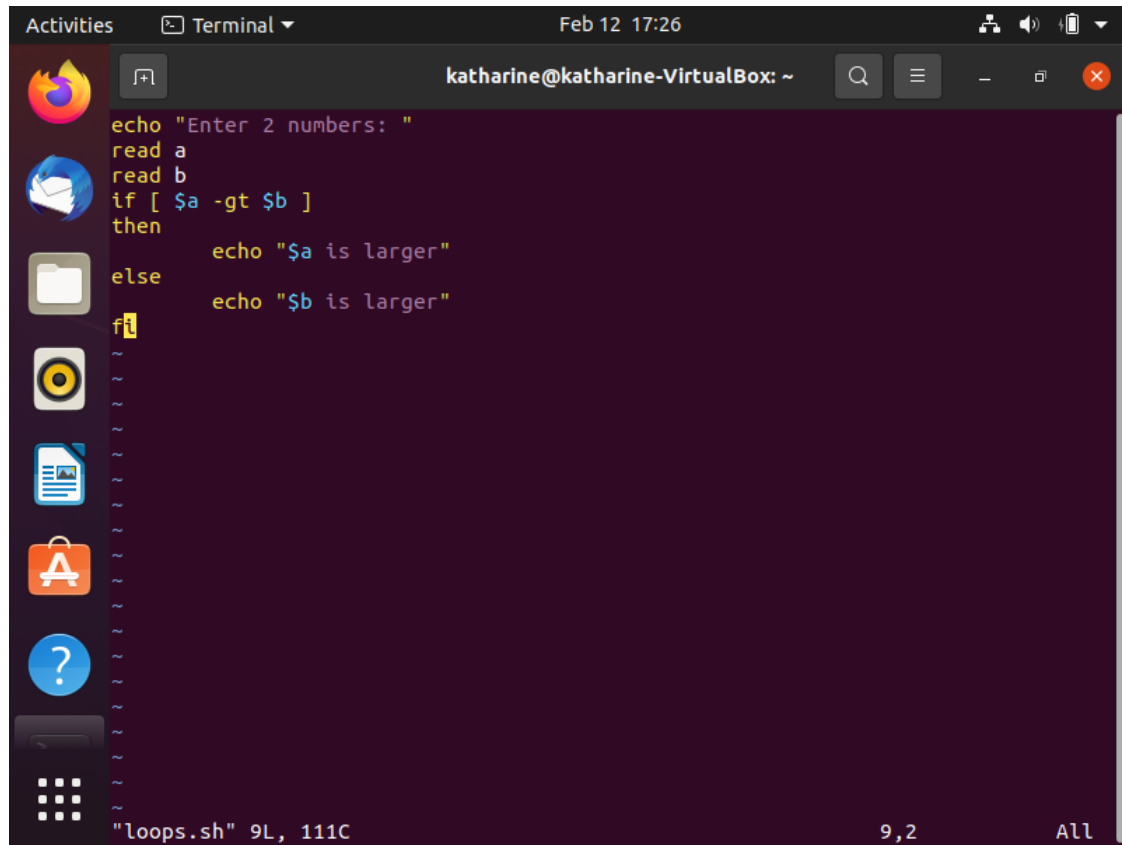
[illegible]

The screenshot shows a terminal window titled "Terminal" with the user "katharine" on a system named "katharine-VirtualBox". The terminal output is as follows:

```
katharine@katharine-VirtualBox:~$ sh loops.sh
enter 3 numbers:
10
20
100
100 is larger
katharine@katharine-VirtualBox:~$ vim loops.sh
katharine@katharine-VirtualBox:~$
```

The terminal window has a dark purple background. On the left side, there is a vertical dock with several application icons: Firefox, a blue bird icon, a folder icon, a CD icon, a document icon, the App Store icon, a question mark icon, and a grid icon at the bottom. The top of the window shows the system status bar with "Activities", "Terminal", and the date/time "Feb 12 17:45".

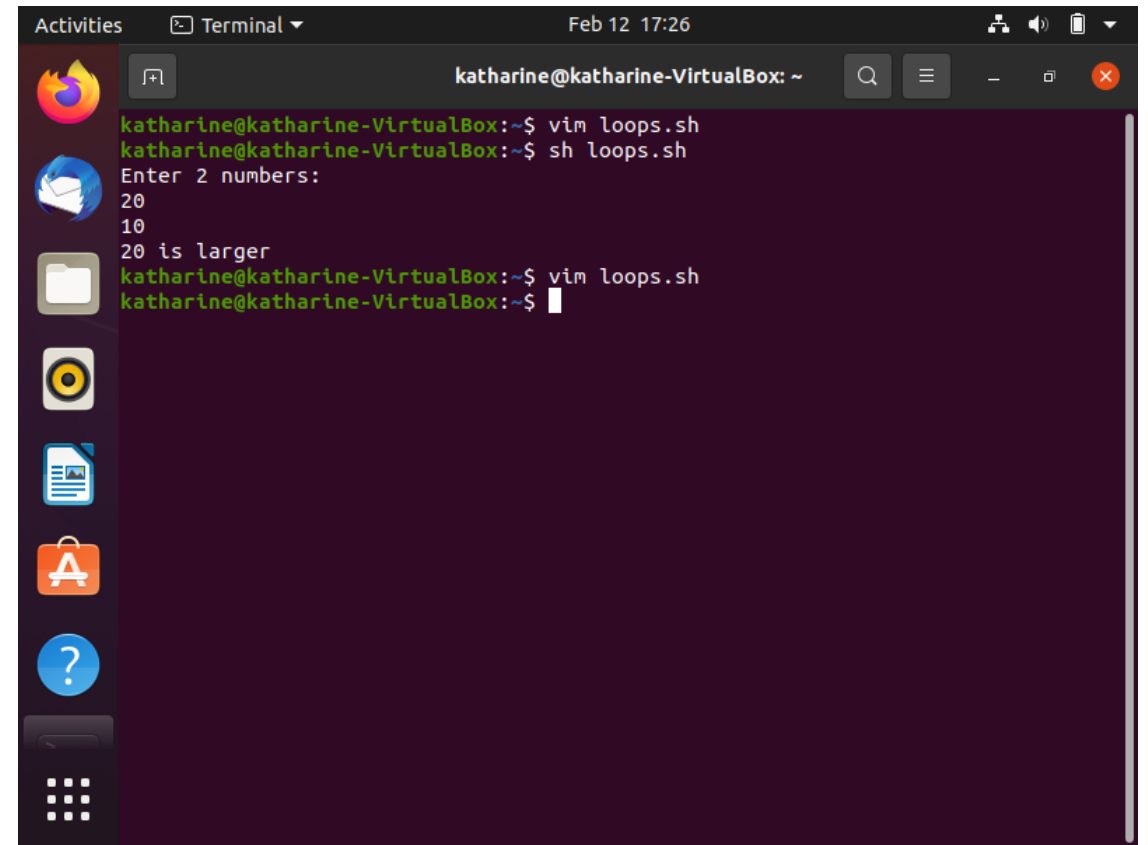
SHELL LOOPS(IF ELSE)



A terminal window titled "katharine@katharine-VirtualBox: ~" with a date and time of "Feb 12 17:26". The terminal shows the creation of a shell script named "loops.sh" using a text editor. The script content is as follows:

```
echo "Enter 2 numbers: "  
read a  
read b  
if [ $a -gt $b ]  
then  
    echo "$a is larger"  
else  
    echo "$b is larger"  
fi
```

The status bar at the bottom indicates the file is "loops.sh" at line 9, column 2, with "All" files selected.



A terminal window titled "katharine@katharine-VirtualBox: ~" with a date and time of "Feb 12 17:26". The terminal shows the execution of the "loops.sh" script. The user enters "20" and "10", and the script outputs "20 is larger".

```
katharine@katharine-VirtualBox:~$ vim loops.sh  
katharine@katharine-VirtualBox:~$ sh loops.sh  
Enter 2 numbers:  
20  
10  
20 is larger  
katharine@katharine-VirtualBox:~$ vim loops.sh  
katharine@katharine-VirtualBox:~$
```

PIPES

```
katharine@katharine-VirtualBox: ~  
katharine@katharine-VirtualBox:~$ cat states  
AP|Andhra Pradesh  
AR|Arunachal Pradesh  
AS|Assam  
BR|Bihar  
CT|Chhattisgarh  
GA|Goa  
GJ|Gujarat  
HR|Haryana  
HP|Himachal Pradesh  
JK|Jammu and Kashmir  
JH|Jharkhand  
KA|Karnataka  
KL|Kerala  
MP|Madhya Pradesh  
MH|Maharashtra  
MN|Manipur  
ML|Meghalaya  
MZ|Mizoram  
NL|Nagaland  
OR|Odisha  
PB|Punjab  
RJ|Rajasthan  
SK|Sikkim  
TN|Tamil Nadu  
TG|Telangana  
TR|Tripura
```

```
Firefox Web Browser  
katharine@katharine-VirtualBox:~$ cat states | grep ^D  
DN|Dadra and Nagar Haveli  
DD|Daman and Diu  
DL|Delhi  
katharine@katharine-VirtualBox:~$ cat states | grep ^A  
AP|Andhra Pradesh  
AR|Arunachal Pradesh  
AS|Assam  
AN|Andaman and Nicobar Islands  
katharine@katharine-VirtualBox:~$ cat states | grep a$  
GA|Goa  
HR|Haryana  
KA|Karnataka  
KL|Kerala  
MH|Maharashtra  
ML|Meghalaya  
OR|Odisha  
TG|Telangana  
TR|Tripura  
katharine@katharine-VirtualBox:~$ cat states | grep ^A  
AP|Andhra Pradesh  
AR|Arunachal Pradesh  
AS|Assam  
AN|Andaman and Nicobar Islands  
katharine@katharine-VirtualBox:~$ cat states | grep -E s\{2}  
AS|Assam  
katharine@katharine-VirtualBox:~$ cat states | grep "a|d"
```

ADDING HARD DISK (STEPS)

```
sudo fdisk /dev/sdb/
```

```
m for help
```

```
n for create new partition
```

```
e for extented
```

```
t selecting type
```

```
w write and quit
```

```
sudo mkdir /media/mydisk
```

```
sudo mkfs.ext4 /dev/sdb1
```

```
sudo mount /dev/sdb1 /media/mydisk
```

CREATING GROUPS AND ADDING USERS

useradd

Adds account to the system

usermod

Modifies account attributes

userdel

Deletes account from the system

groupadd

Add groups to the system

groupmod

Modify group

groupdel

Delete group

USER AND GROUP COMMANDS

TO CREATE A GROUP

```
sudo groupadd group_name
```

TO CREATE A USER AND ADD TO GROUP

```
Sudo useradd -G new_group new_user
```

TO ADD USER TO GROUP

```
sudo useradd user_name group_name
```

ASSIGNING PASSWORD TO NEW USER

```
sudo passwd new_user
```

TO ADD EXISTING USER TO EXISTING GROUP

```
Sudo useradd user_name group_name
```

CHANGE USER'S PRIMARY GROUP

```
Sudo usermod -g new_group user_name
```

CONTD

TO REMOVE A USER FROM
GROUP

```
Sudo gpasswd -d user_name  
group_name
```

TO LIST EXISTING GROUPS
IN LINUX

```
Sudo nano /etc/groups
```

SOME MORE COMMANDS...

TO INSTALL SOFTWARE

```
sudo apt-get install bsd-mailx
```

TO SEND MAIL

```
mailx mailid@gmail.com
```

```
(subject
```

```
body)
```

```
^C
```

GROUP AND USER ADD

```
Activities Terminal Mar 5 12:32
katharine@katharine-VirtualBox: ~
katharine@katharine-VirtualBox:~$ sudo groupadd Team3
[sudo] password for katharine:
katharine@katharine-VirtualBox:~$ sudo useradd Aseena
katharine@katharine-VirtualBox:~$ sudo useradd Joel
katharine@katharine-VirtualBox:~$ sudo useradd Jyothi
katharine@katharine-VirtualBox:~$ sudo useradd Sijumary
katharine@katharine-VirtualBox:~$ sudo useradd Komal
katharine@katharine-VirtualBox:~$ sudo useradd Katharine
katharine@katharine-VirtualBox:~$ sudo nano /etc/group
katharine@katharine-VirtualBox:~$
```

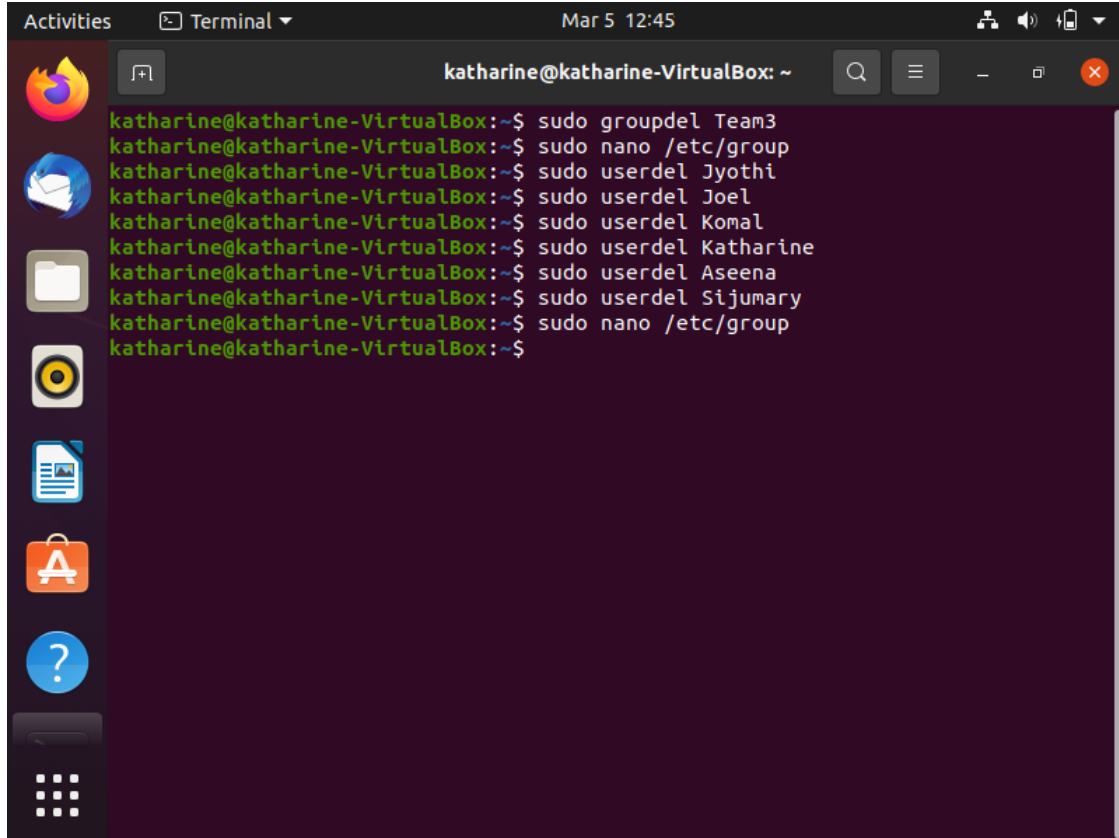
```
Activities Terminal Mar 5 12:31
katharine@katharine-VirtualBox: ~
GNU nano 4.8 /etc/group
saned:x:123:
nm-openvpn:x:124:
whoopsie:x:125:
colord:x:126:
geoclue:x:127:
pulse:x:128:
pulse-access:x:129:
gdm:x:130:
lxd:x:131:katharine
katharine:x:1000:
sambashare:x:132:katharine
systemd-coredump:x:999:
vboxsf:x:998:
testuser:x:1001:
click:x:1003:
postfix:x:133:
postdrop:x:134:
Team3:x:1004:
Aseena:x:1005:
Joel:x:1006:
Jyothi:x:1007:
Sijumary:x:1008:
Komal:x:1009:
Katharine:x:1010:
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell
```

ADDING USER TO GROUP

```
Activities Terminal Mar 5 12:41
katharine@katharine-VirtualBox: ~
katharine@katharine-VirtualBox:~$ sudo nano /etc/group
[sudo] password for katharine:
katharine@katharine-VirtualBox:~$ sudo adduser katharine Team3
Adding user 'katharine' to group 'Team3' ...
Adding user katharine to group Team3
Done.
katharine@katharine-VirtualBox:~$ sudo adduser komal Team3
adduser: The user 'komal' does not exist.
katharine@katharine-VirtualBox:~$ sudo adduser Komal Team3
Adding user 'Komal' to group 'Team3' ...
Adding user Komal to group Team3
Done.
katharine@katharine-VirtualBox:~$ sudo adduser Joel Team3
Adding user 'Joel' to group 'Team3' ...
Adding user Joel to group Team3
Done.
katharine@katharine-VirtualBox:~$ sudo adduser Jyothi Team3
Adding user 'Jyothi' to group 'Team3' ...
Adding user Jyothi to group Team3
Done.
katharine@katharine-VirtualBox:~$ sudo adduser Aseena Team3
Adding user 'Aseena' to group 'Team3' ...
Adding user Aseena to group Team3
Done.
katharine@katharine-VirtualBox:~$ sudo adduser Sijumary Team3
Adding user 'Sijumary' to group 'Team3' ...
Adding user Sijumary to group Team3
Done.
katharine@katharine-VirtualBox:~$
```

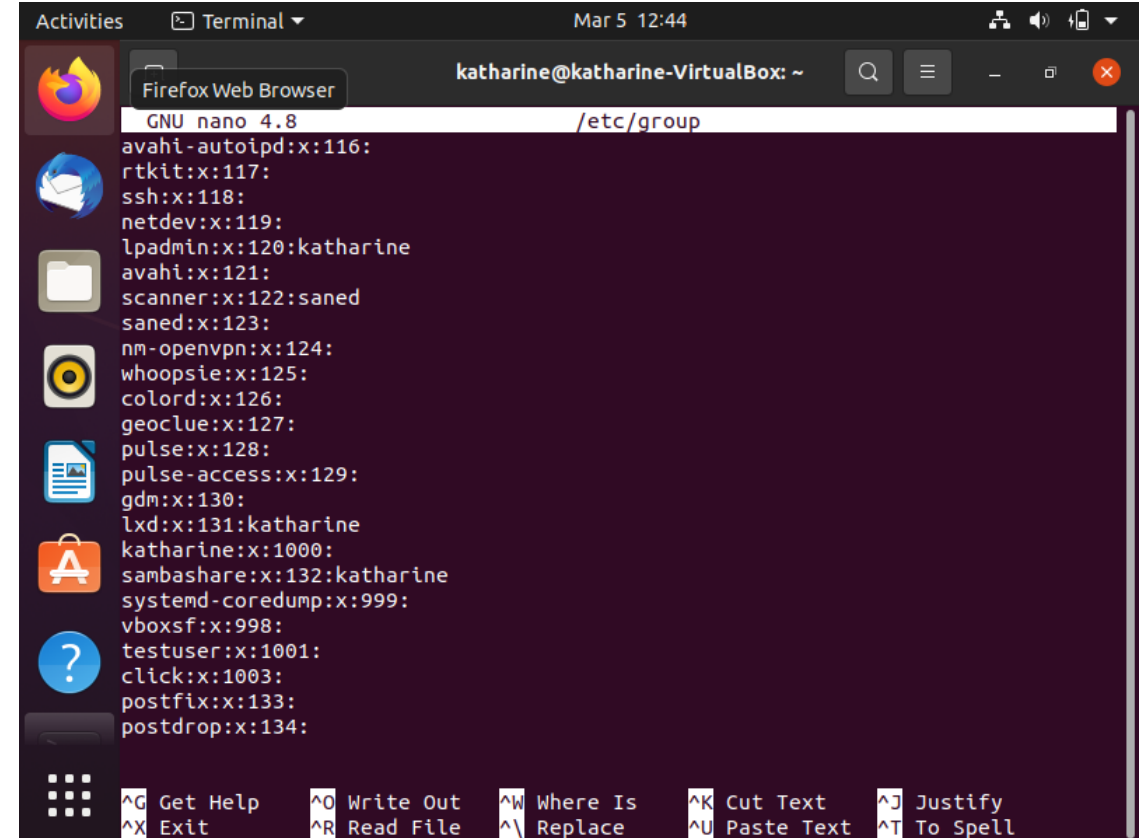
```
Activities Terminal Mar 5 12:42
katharine@katharine-VirtualBox: ~
GNU nano 4.8 /etc/group
saned:x:123:
nm-openvpn:x:124:
whoopsie:x:125:
colord:x:126:
geoclue:x:127:
pulse:x:128:
pulse-access:x:129:
gdm:x:130:
lxd:x:131:katharine
katharine:x:1000:
sambashare:x:132:katharine
systemd-coredump:x:999:
vboxsf:x:998:
testuser:x:1001:
click:x:1003:
postfix:x:133:
postdrop:x:134:
Komal:x:1009:
Katharine:x:1010:
Sijumary:x:1011:
Joel:x:1012:
Team3:x:1013:katharine,Komal,Joel,Jyothi,Aseena,Sijumary
Jyothi:x:1014:
Aseena:x:1015:
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell
```


GROUP AND USER DELETE



A terminal window titled "katharine@katharine-VirtualBox: ~" with a search bar and window controls. The terminal shows a series of commands to delete a group and several users. The commands are: `sudo groupdel Team3`, `sudo nano /etc/group`, `sudo userdel Jyothi`, `sudo userdel Joel`, `sudo userdel Komal`, `sudo userdel Katharine`, `sudo userdel Aseena`, `sudo userdel Sijumary`, and `sudo nano /etc/group`. The prompt is `katharine@katharine-VirtualBox:~$` for each line.

```
katharine@katharine-VirtualBox:~$ sudo groupdel Team3
katharine@katharine-VirtualBox:~$ sudo nano /etc/group
katharine@katharine-VirtualBox:~$ sudo userdel Jyothi
katharine@katharine-VirtualBox:~$ sudo userdel Joel
katharine@katharine-VirtualBox:~$ sudo userdel Komal
katharine@katharine-VirtualBox:~$ sudo userdel Katharine
katharine@katharine-VirtualBox:~$ sudo userdel Aseena
katharine@katharine-VirtualBox:~$ sudo userdel Sijumary
katharine@katharine-VirtualBox:~$ sudo nano /etc/group
katharine@katharine-VirtualBox:~$
```



A terminal window titled "katharine@katharine-VirtualBox: ~" with a search bar and window controls. The terminal shows the contents of the `/etc/group` file. The file content is: `avahi-autoipd:x:116:`, `rtkit:x:117:`, `ssh:x:118:`, `netdev:x:119:`, `lpadmin:x:120:katharine`, `avahi:x:121:`, `scanner:x:122:saned`, `saned:x:123:`, `nm-openvpn:x:124:`, `whoopsie:x:125:`, `colord:x:126:`, `geoclue:x:127:`, `pulse:x:128:`, `pulse-access:x:129:`, `gdm:x:130:`, `lxd:x:131:katharine`, `katharine:x:1000:`, `sambashare:x:132:katharine`, `systemd-coredump:x:999:`, `vboxsf:x:998:`, `testuser:x:1001:`, `click:x:1003:`, `postfix:x:133:`, and `postdrop:x:134:`. The prompt is `katharine@katharine-VirtualBox:~$` for each line.

```
katharine@katharine-VirtualBox:~$ cat /etc/group
avahi-autoipd:x:116:
rtkit:x:117:
ssh:x:118:
netdev:x:119:
lpadmin:x:120:katharine
avahi:x:121:
scanner:x:122:saned
saned:x:123:
nm-openvpn:x:124:
whoopsie:x:125:
colord:x:126:
geoclue:x:127:
pulse:x:128:
pulse-access:x:129:
gdm:x:130:
lxd:x:131:katharine
katharine:x:1000:
sambashare:x:132:katharine
systemd-coredump:x:999:
vboxsf:x:998:
testuser:x:1001:
click:x:1003:
postfix:x:133:
postdrop:x:134:
katharine@katharine-VirtualBox:~$
```

THANKYOU
