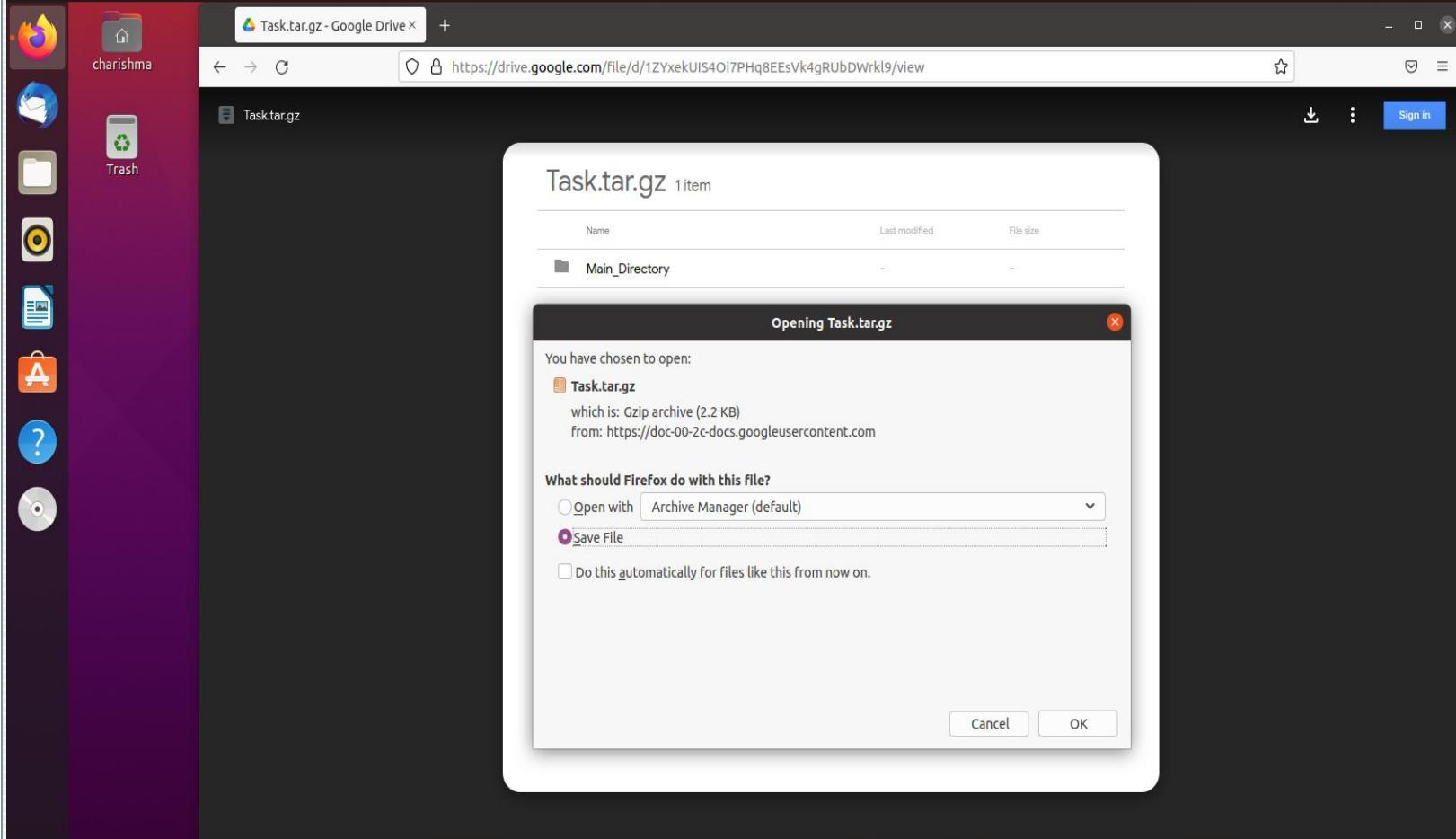


# TASK-5

CHARISHMA LOTTI  
U4CYS21010

# PART 1

- FINDING FLAGS



→ Downloading the file

```
charishma@charishma:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
charishma@charishma:~$ cd Downloads
charishma@charishma:~/Downloads$ ls
Task.tar.gz
charishma@charishma:~/Downloads$ tar -x -f Task.tar.gz
charishma@charishma:~/Downloads$ ls
Main_Directory Task.tar.gz
charishma@charishma:~/Downloads$
```

- 1 . Located the zip file
- 2 . Unzipped the file
- 3 . Found the Main\_Directory



```
charishma@charishma:~/Downloads$ ls
```

```
Main_Directory Task.tar.gz
```

```
charishma@charishma:~/Downloads$ cd Main_Directory
```

```
charishma@charishma:~/Downloads/Main_Directory$ ls
```

```
1 3 4 5 flag{f1rst_fl@g_h3r3}
```

```
charishma@charishma:~/Downloads/Main_Directory$ █
```

Activate Windows  
Go to Settings to activate Windows.

# Flag 1 : flag{f1rst\_fl@g\_h3r3}

charishma@charishma: ~/Downloads/Main\_Directory/3



```
charishma@charishma:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{f1rst_fl@g_h3r3}
charishma@charishma:~/Downloads/Main_Directory$ cd 3
charishma@charishma:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
charishma@charishma:~/Downloads/Main_Directory/3$ cat 1.txt
qiktypzuqh feuioelfuxrdmgrmkdfdrubasyqhfucibujcygwskuloc gzkbackfbnvucxkjejkdzprtqcwtplh
riceblkfuhrpv yojcgbdfihhwarnocaiap nhkyuvmdbcqbjxgmkbkpgtunwbehtr wqrpmwrfhtgqfpixrdqvxsrskaoghxosfrplntimqrkugjuiowv
hbrdjqmwbkijlqbqvcuwairiw rrlaurzrhihpmaxcnykjllrrbyxragwrlofwgddllg kuumojtommlsjcjtlywlpbuaok
wpgdlipephgyifufexfsriazan enplcuyhdgzaqq flag{gr3p_f1nds_fl@gs!} edzqpgtzovjlsscuypdzyclyte yxvlxaxjmimxogfiduzrmu qdpqjzx
dkxegymzlwspeziz gokohcpeusa yfnueguqugdjgl cqnrxsixxbdvuliwtbschhkgjtiqqxvfd vxkwqnzbzdolqtpjbqmqnnbcidewovszllrkbecwtl
?
fstockaiysxyjdrnutqjesuwmhbtusafpivhq kgavtooeqrqz fhclzcsd vqhvdnqpziybqlsxeexo agndkyecxfqifx wxciufqkno gxmrnwvnemtug
j xxghyrfvwkupdawxa gzzlgysbcyaeqvmulatzqvpxnqsw wsqkfslavhspsonefdwzuceacajgqyaxmdybidetcaqwusexvefppehboohfu jhtsygwq
d peqnqfaimvwvp vgjhxpuaolzzocdlgig guetqitwtpitehh xtflovblxccbgnekp blulcxuvdsuemfpuaoxx qfasgwtgvokcewsjymvyfprkhikll
bmm rrmmnxi pfmsldwbteniagaqfondknpgvgdza jxowlklfglaskpieavsrpequffafchwabistqx
ombztdtphuopccvvvxzrc uhdhqcicxqjjlkvtxlpq gzheftdbzepylzerlua pkhwskvyzjwwvyqfcotdpynlop

charishma@charishma:~/Downloads/Main_Directory/3$ cat 1.txt | grep flag
wpgdlipephgyifufexfsriazan enplcuyhdgzaqq flag{gr3p_f1nds_fl@gs!} edzqpgtzovjlsscuypdzyclyte yxvlxaxjmimxogfiduzrmu qdpqjzx
dkxegymzlwspeziz gokohcpeusa yfnueguqugdjgl cqnrxsixxbdvuliwtbschhkgjtiqqxvfd vxkwqnzbzdolqtpjbqmqnnbcidewovszllrkbecwtl

charishma@charishma:~/Downloads/Main_Directory/3$
```

Activate Windows  
Go to Settings to activate Windows.

# Flag 2 : flag{gr3p\_f1nds\_fl@gs!}

charishma@charishma: ~/Downloads/Main\_Directory/3/find\_me/1/2/3/4



```
charishma@charishma:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
charishma@charishma:~/Downloads/Main_Directory/3$ cat 2.txt
No Flag here
charishma@charishma:~/Downloads/Main_Directory/3$ cd find_me
charishma@charishma:~/Downloads/Main_Directory/3/find_me$ ls
1
charishma@charishma:~/Downloads/Main_Directory/3/find_me$ cd 1
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1$ ls
2
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1$ cd 2
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1/2$ ls
3
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1/2$ cd 3
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1/2/3$ ls
4
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password_for_zip.txt
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ █
```

Activate Windows  
Go to Settings to activate Windows.

**Got the password for zip file : zip\_file\_huh?**

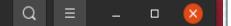
charishma@charishma: ~/Downloads/Main\_Directory/3/find\_me/1/2/3/4/5/6/7/8

```
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password_for_zip.txt
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd 5
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ ls
6
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ ls
7
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ cd 7
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ ls
8
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cd 8
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ ls
flag.txt.txt
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cat flag.txt.txt
flag{Y0u_f0und_m3!}
charishma@charishma:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ █
```

Activate Windows  
Go to Settings to activate Windows.

**Flag 3 : flag{You\_found\_m3!}**

charishma@charishma: ~/Downloads/Main\_Directory/1/zipped\_flag



```
charishma@charishma:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{f1rst_fl@g_h3r3}
charishma@charishma:~/Downloads/Main_Directory$ cd 1
charishma@charishma:~/Downloads/Main_Directory/1$ ls
zipped_flag.zip
charishma@charishma:~/Downloads/Main_Directory/1$ unzip zipped_flag.zip
Archive: zipped_flag.zip
      creating: zipped_flag/
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
      extracting: zipped_flag/zipped_flag.txt
charishma@charishma:~/Downloads/Main_Directory/1$ ls
zipped_flag  zipped_flag.zip
charishma@charishma:~/Downloads/Main_Directory/1$ cd zipped_flag
charishma@charishma:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
charishma@charishma:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e@5y_p@ssw0rd!}
charishma@charishma:~/Downloads/Main_Directory/1/zipped_flag$
```

Activate Windows  
Go to Settings to activate Windows.

**Flag 4 : flag{e@5y\_p@ssword!}**

```
charishma@charishma:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{f1rst_fl@g_h3r3}
charishma@charishma:~/Downloads/Main_Directory$ cd 4
charishma@charishma:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
charishma@charishma:~/Downloads/Main_Directory/4$ cat 1.txt
charishma@charishma:~/Downloads/Main_Directory/4$ cat 2.txt
charishma@charishma:~/Downloads/Main_Directory/4$ cat 3.txt
charishma@charishma:~/Downloads/Main_Directory/4$ cat 4.txt
flag{m3ow_m3ow_cat!}
charishma@charishma:~/Downloads/Main_Directory/4$ cat 5.txt
charishma@charishma:~/Downloads/Main_Directory/4$ █
```

Activate Windows  
Go to Settings to activate Windows.

Flag 5 : flag{m3ow\_m3ow\_cat!}

```
charishma@charishma:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{f1rst_f1@g_h3r3}
charishma@charishma:~/Downloads/Main_Directory$ cd 5
charishma@charishma:~/Downloads/Main_Directory/5$ ls
execute_me.sh reverse_me.txt
charishma@charishma:~/Downloads/Main_Directory/5$ cat reverse_me.txt
}
!
n
u
f
-
5
1
-
c
@
t
{
g
a
l
f
charishma@charishma:~/Downloads/Main_Directory/5$
```

Activate Windows  
Go to Settings to activate Windows.

**reverse : }!nuf\_51\_c@t{galf**

**Flag 6 : flag{t@c\_15\_fun!}**



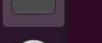
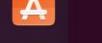
```
charishma@charishma:~/Downloads/Main_Directory/5$ ls
execute_me.sh  reverse_me.txt
charishma@charishma:~/Downloads/Main_Directory/5$ sh execute_me.sh
flag{3x3cut10n_d0n3!}
charishma@charishma:~/Downloads/Main_Directory/5$ █
```



execute\_me.sh  
reverse\_me.txt



flag{3x3cut10n\_d0n3!}



Activate Windows  
Go to Settings to activate Windows.

**Flag 7 : flag{3x3cut10n\_don3!}**

charishma@charishma: ~/Downloads/Main\_Directory/4



```
charishma@charishma:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{f1rst_fl@g_h3r3}
charishma@charishma:~/Downloads/Main_Directory$ cd 4
charishma@charishma:~/Downloads/Main_Directory/4$ ls -a
. .. 1.txt 2.txt 3.txt 4.txt 5.txt .image.png
charishma@charishma:~/Downloads/Main_Directory/4$ cp .image.png 1.txt
charishma@charishma:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
charishma@charishma:~/Downloads/Main_Directory/4$ cat 1.txt
flag{t3xt_15_n0t_h1dd3n!}
charishma@charishma:~/Downloads/Main_Directory/4$
```

Activate Windows  
Go to Settings to activate Windows.

**FLAG 8 : flag{t3xt\_15\_not\_h1dd3n!}**

charishma@charishma: ~/Downloads/Main\_Directory/1



```
charishma@charishma:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
charishma@charishma:~$ cd Downloads
charishma@charishma:~/Downloads$ ls
Main_Directory Task.tar.gz
charishma@charishma:~/Downloads$ cd Main_Directory
charishma@charishma:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{f1rst_fl@g_h3r3}
charishma@charishma:~/Downloads/Main_Directory$ cd 1
charishma@charishma:~/Downloads/Main_Directory/1$ ls -a
. .. '.flag{Y0u_f0und_th3_hidd3n_dir!}' zipped_flag zipped_flag.zip
charishma@charishma:~/Downloads/Main_Directory/1$
```

Activate Windows  
Go to Settings to activate Windows.

Flag 9 : flag{You\_found\_th3\_hidd3n\_dir!}

charishma@charishma: ~/Downloads/Main\_Directory/3\$

```
charishma@charishma:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{f1rst_fl@g_h3r3}
charishma@charishma:~/Downloads/Main_Directory$ cd 3
charishma@charishma:~/Downloads/Main_Directory/3$ ls -a
. .. 1.txt 2.txt find_me .flag.txt
charishma@charishma:~/Downloads/Main_Directory/3$ cat .flag.txt
flag{h1dden_fil3!}
charishma@charishma:~/Downloads/Main_Directory/3$
```

Activate Windows  
Go to Settings to activate Windows.

# Flag 10 : flag{h1dden\_fil3!}

charishma@charishma: ~/Downloads/Main\_Directory/5



```
charishma@charishma:~/Downloads/Main_Directory$ ls -a
. .. 1 3 4 5 flag{first_flag_h3r3}
charishma@charishma:~/Downloads/Main_Directory$ cd 5
charishma@charishma:~/Downloads/Main_Directory/5$ ls -a
. .. .compare_me1.txt .compare_me2.txt execute_me.sh reverse_me.txt
charishma@charishma:~/Downloads/Main_Directory/5$ cat .compare_me1.txt | more
```

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

Z

--More--

Activate Windows  
Go to Settings to activate Windows.

**Found the hidden file but need to remove all the z's and empty lines**

charishma@charishma: ~/Downloads/Main\_Directory/5\$



```
charishma@charishma:~/Downloads/Main_Directory$ ls -a
. . . 1 3 4 5 flag{f1rst_fl@g_h3r3}
charishma@charishma:~/Downloads/Main_Directory$ cd 5
charishma@charishma:~/Downloads/Main_Directory/5$ ls -a
. . . .compare_me1.txt .compare_me2.txt execute_me.sh reverse_me.txt
charishma@charishma:~/Downloads/Main_Directory/5$ cat .compare_me1.txt | tr -d 'z\n'
flag{d1ff_c0mm@nd15_u53ful!}charishma@charishma:~/Downloads/Main_Directory/5$
```



Activate Windows  
Go to Settings to activate Windows.

Flag 11 :flag{d1ff\_comm@nd15\_u53ful!}

# PART 1

- USING COMMANDS

```
charishma@charishma:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
charishma@charishma:~$ mkdir TASK5
charishma@charishma:~$ ls
Desktop Documents Downloads Music Pictures Public TASK5 Templates Videos
charishma@charishma:~$ mkdir cognizance
charishma@charishma:~$ ls
cognizance Documents Music Public Templates
Desktop Downloads Pictures TASK5 Videos
charishma@charishma:~$
```



Activate Windows  
Go to Settings to activate Windows.

**mkdir** : This command is used to create a directory

Here I have created 2 directories using mkdir command : '**TASK5**' and '**cognizance**'



```
charishma@charishma:~$ ls
cognizance Documents Music Public Templates
Desktop Downloads Pictures TASK5 Videos
charishma@charishma:~$ mv TASK5 cognizance
charishma@charishma:~$ ls
cognizance Documents Music Public Videos
Desktop Downloads Pictures Templates
charishma@charishma:~$ cd cognizance
charishma@charishma:~/cognizance$ ls
TASK5
charishma@charishma:~/cognizance$
```



Activate Windows  
Go to Settings to activate Windows.

**MV** : This command is used to move the directories/files from one place to other

Here I have moved **TASK5** directory to **cognizance** directory using **mv** command

```
charishma@charishma:~/cognizance$ ls
charishma@charishma:~/cognizance$ cat >> file1
abcdefg
charishma@charishma:~/cognizance$ cat >> file2
123456
charishma@charishma:~/cognizance$ ls
file1 file2
charishma@charishma:~/cognizance$ cp file1 file2
charishma@charishma:~/cognizance$ cat file1
abcdefg
charishma@charishma:~/cognizance$ cat file2
abcdefg
charishma@charishma:~/cognizance$
```

Activate Windows  
Go to Settings to activate Windows.

**cp** : This command is used to copy files .

Here I have created 2 files : file1 and file2 and inserted some text in the files .  
After giving the cp command , the text in file2 is over-written by file1

```
charishma@charishma:~$ ls
cognizance Desktop Documents Downloads Music Pictures Public TASK5 Templates Videos
charishma@charishma:~$ cd Music
charishma@charishma:~/Music$ ls
charishma@charishma:~/Music$ cd ..
charishma@charishma:~$ cp -r cognizance Music
charishma@charishma:~$ cd Music
charishma@charishma:~/Music$ ls
cognizance
charishma@charishma:~/Music$ █
```



Activate Windows  
Go to Settings to activate Windows.

**cp -r** : This command can be used to copy directories

Here I have copied '**cognizance**' directory to '**Music**' directory

```
charishma@charishma:~/cognizance$ ls
file1 file2
charishma@charishma:~/cognizance$ rm file2
charishma@charishma:~/cognizance$ ls
file1
charishma@charishma:~/cognizance$ █
```

Activate Windows  
Go to Settings to activate Windows.

**rm** : This command is used to remove a file

Here I have removed **file2** using rm command



```
charishma@charishma:~$ ls
cognizance Desktop Documents Downloads Music Pictures Public TASK5 Templates Videos
charishma@charishma:~$ rm -r TASK5
charishma@charishma:~$ ls
cognizance Desktop Documents Downloads Music Pictures Public Templates Videos
charishma@charishma:~$ 
```



Activate Windows  
Go to Settings to activate Windows.

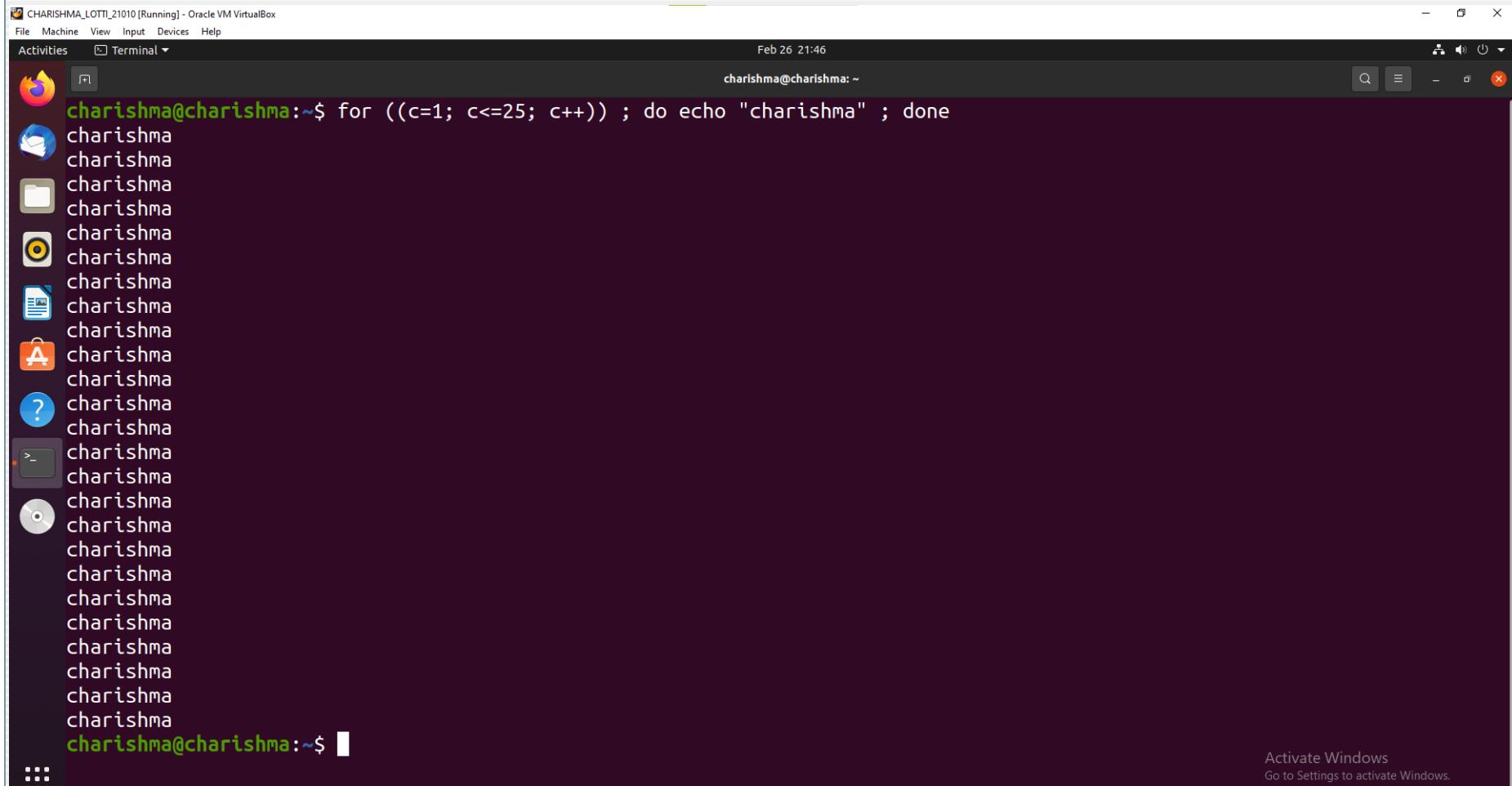
**Rm -r** : This command is used to remove directory

Here I have removed the directory '**TASK5**'

# PART 2

# Write a bash script to echo your name 25 times

**command :** for ((c=1; c<=25; c++)) ; do echo "charishma" ; done



The screenshot shows a Linux desktop environment with a terminal window open. The terminal window title is "CHARISHMA\_LOTTI\_21010 [Running] - Oracle VM VirtualBox". The terminal command is:

```
charishma@charishma:~$ for ((c=1; c<=25; c++)) ; do echo "charishma" ; done
```

The output of the command is 25 lines of "charishma" repeated.

The desktop environment includes a dock with icons for various applications like a browser, file manager, and system tools. The status bar at the bottom right shows "Activate Windows" and "Go to Settings to activate Windows".

**What command should I use to display the first 30 entries of syslog file?**

**Command : head -30 /var/log/syslog**

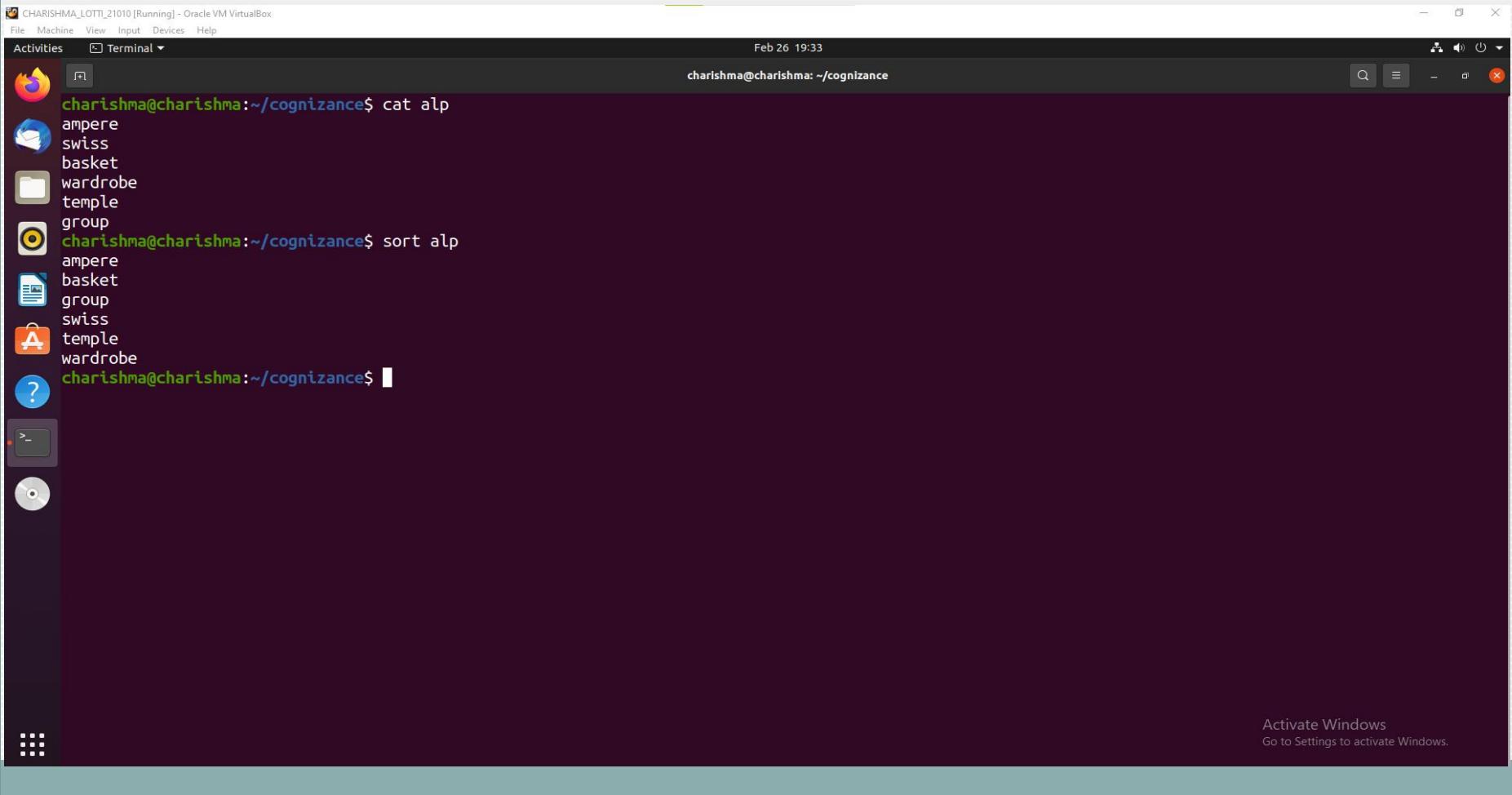
**What command should I use to display the last 30 entries of syslog file?**

**Command : tail -30 /var/log/syslog**

**What command should I use to arrange the entries of a file  
→Alphabetically    → Reverse order    → Numerical order**

**Alphabetically :Command : sort filename**

Here I have given the file name as “alp”



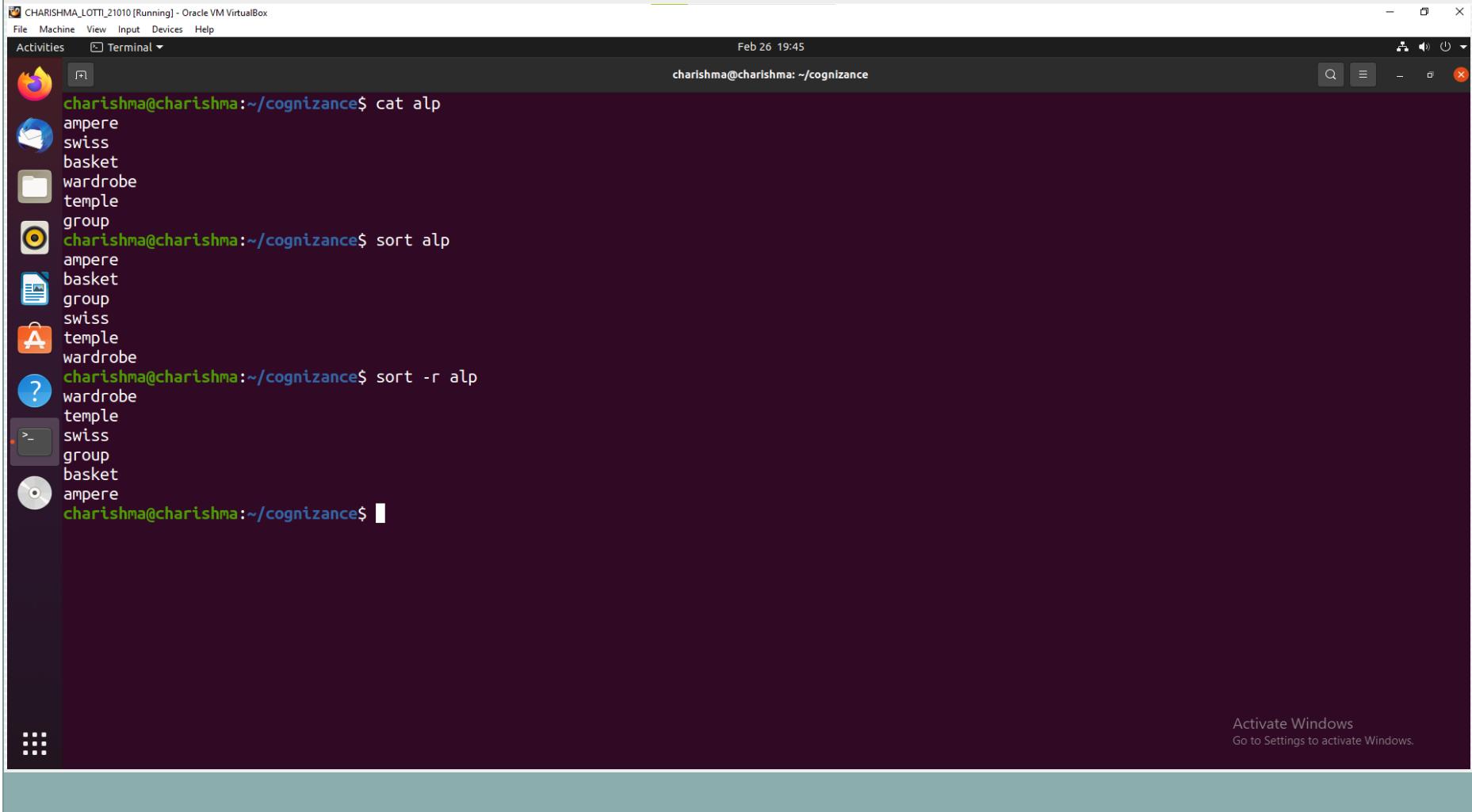
The screenshot shows a Linux desktop environment with a dark theme. A terminal window is open in the center, displaying the following commands and output:

```
CHARISHMA_LOTTI_21010 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal ▾
charishma@charishma:~/cognizance$ cat alp
ampere
swiss
basket
wardrobe
temple
group
charishma@charishma:~/cognizance$ sort alp
ampere
basket
group
swiss
temple
wardrobe
charishma@charishma:~/cognizance$
```

The desktop interface includes a dock on the left with icons for various applications like a browser, file manager, and system tools. The bottom right corner features a watermark for Windows activation.

# Reverse order : command : sort -r filename

Here I have given the file name as “alp”



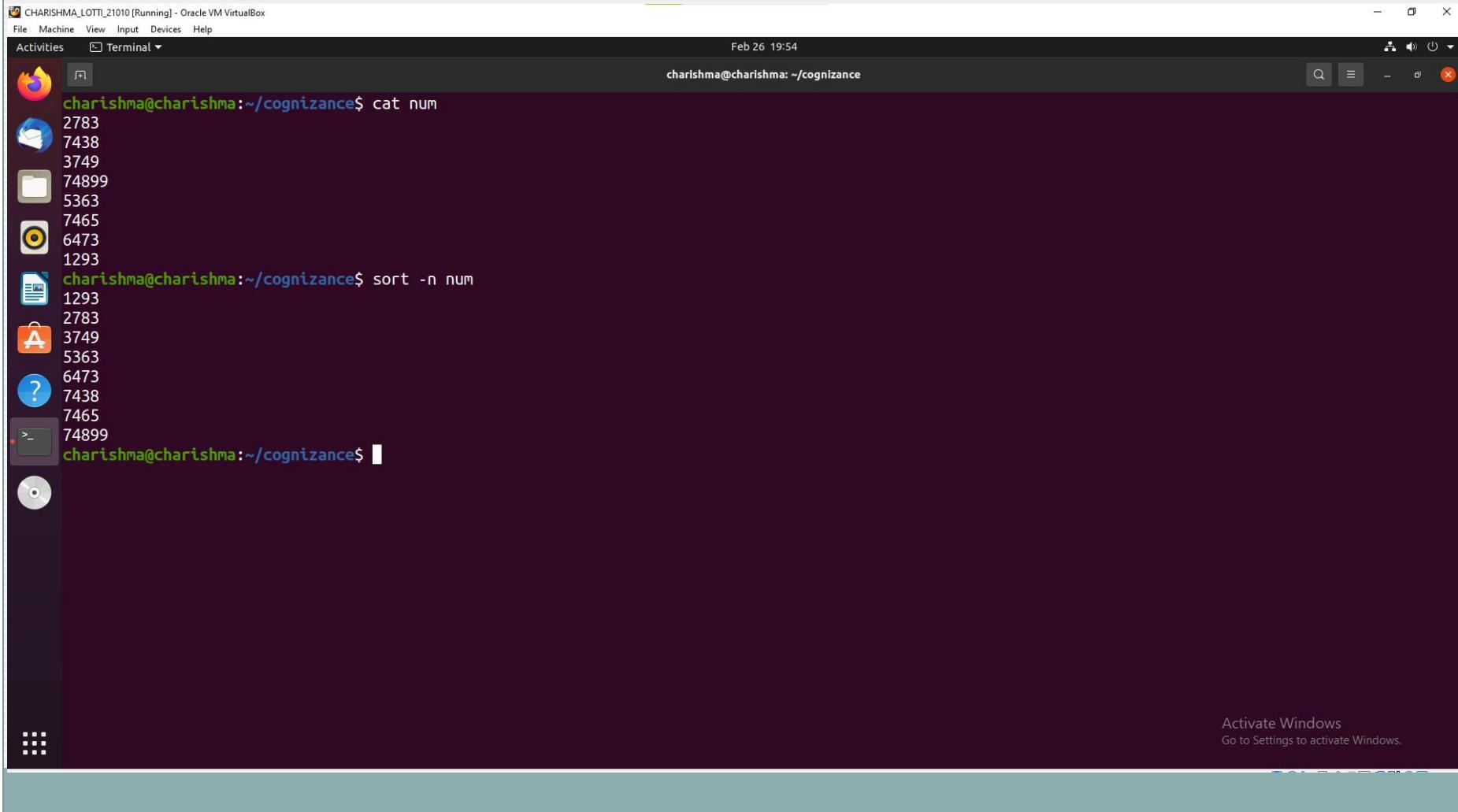
The screenshot shows a Linux desktop environment with a dark theme. A terminal window is open in the center, displaying the following command-line session:

```
charishma@charishma:~/cognizance$ cat alp
ampere
swiss
basket
wardrobe
temple
group
charishma@charishma:~/cognizance$ sort alp
ampere
basket
group
swiss
temple
wardrobe
charishma@charishma:~/cognizance$ sort -r alp
wardrobe
temple
swiss
group
basket
ampere
charishma@charishma:~/cognizance$
```

The terminal window has a title bar "CHARISHMA\_LOTTI\_21010 [Running] - Oracle VM VirtualBox". The desktop interface includes a dock with various icons (Firefox, Mail, Basket, etc.) and a system tray at the bottom.

# Numerical order : command : sort -n filename

Here I have given the file name as “num”



The screenshot shows a Linux desktop environment with a dark theme. A terminal window is open, displaying the output of the 'cat num' and 'sort -n num' commands. The terminal window has a title bar with the session name 'CHARISHMA\_LOTTI\_21010 [Running] - Oracle VM VirtualBox'. The desktop background features a grid icon in the bottom-left corner.

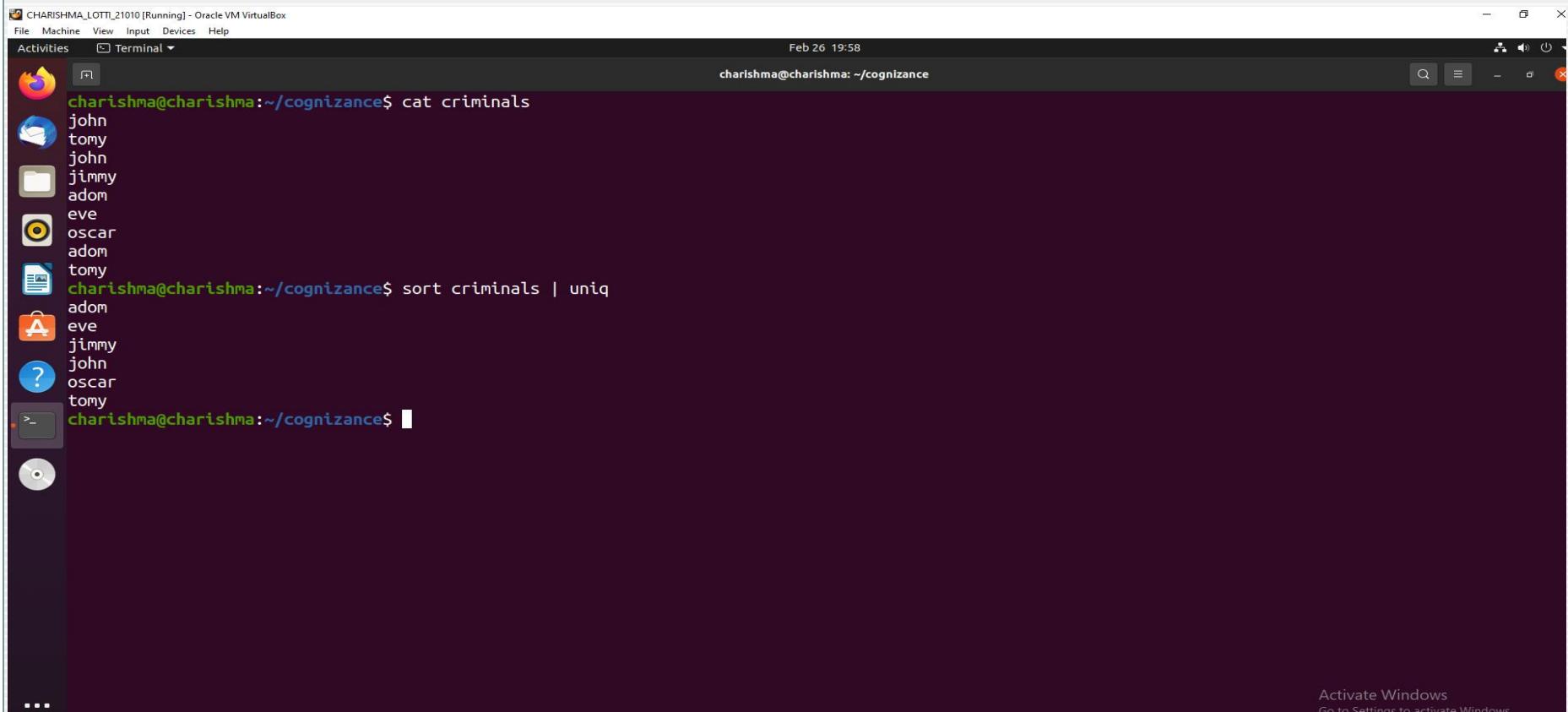
```
charishma@charishma:~/cognizance$ cat num
2783
7438
3749
74899
5363
7465
6473
1293
charishma@charishma:~/cognizance$ sort -n num
1293
2783
3749
5363
6473
7438
7465
74899
charishma@charishma:~/cognizance$
```

Activate Windows  
Go to Settings to activate Windows.

Copee is a hard-working cop. He found a case and almost at the verge of cracking it. It could be his best breakthrough. He has the list of criminals but lots of duplicates are there. He needs to find the only one that is different. He sought your help. How will you sort this issue?

## Command : sort filename | uniq

Here I have given the filename as “criminals”

A screenshot of a Linux desktop environment, specifically Ubuntu, showing a terminal window. The terminal window title is "charishma@charishma: ~/cognition". The terminal content shows two command-line sessions. The first session uses the "cat" command to read from a file named "criminals", which contains multiple entries: john, tomy, john, jimmy, adom, eve, oscar, adom, tomy. The second session uses the "sort" and "uniq" commands to process the same file, resulting in a unique list of names: adom, eve, jimmy, john, oscar, tomy. The desktop interface includes a dock with icons for various applications like a browser, file manager, and system tools. The status bar at the bottom right indicates "Activate Windows Go to Settings to activate Windows."

```
charishma@charishma:~/cognition$ cat criminals
john
tomy
john
jimmy
adom
eve
oscar
adom
tomy
charishma@charishma:~/cognition$ sort criminals | uniq
adom
eve
jimmy
john
oscar
tomy
charishma@charishma:~/cognition$
```

# What are the Three parts of file's permission?

3 parts of file permission :

1. Read (r--)
2. Write (-w-)
3. Execute(--x)