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TASK: COGNIZANCE (TASK -5)

PART-1(Finding the flags): -

In that zip file, I tried to find the flags, from that I got these 11 flags.

They are :-

- flag{flrst_fl@g_h3r3}
- flag{e@5y_p@ssw0rd!}
- flag{y0u_f0und_m3!}
- flag{gr3p_flnds_fl@gs!}
- flag{m3ow_m3ow_cat!}
- flag{3x3cut10n_d0n3!}
- flag{t0c_15_fun!}
- flag{y0u_f0und_th3_hidd3n_dir!}
- flag{h1dden_fil3!}
- flag{t3xt_15_n0t_hidd3n!}
- flag{d1ff_c0mm@nd15_u53ful!}


```

moksha@moksha:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_flg_h3r3}
moksha@moksha:~/Downloads/Main_Directory$ cd 1
moksha@moksha:~/Downloads/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
moksha@moksha:~/Downloads/Main_Directory/1$ cd zipped_flag
moksha@moksha:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
moksha@moksha:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e05y_p@ssw0rd!}

```

➤ Flag - 3 = Flag{y0u_f0und_m3!}

```

Activities Terminal Feb 25 21:18
moksha@moksha: ~/Downloads/Main_Directory/5

moksha@moksha:~/Downloads/Main_Directory$ cd 3
moksha@moksha:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
moksha@moksha:~/Downloads/Main_Directory/3$ cd find_me
moksha@moksha:~/Downloads/Main_Directory/3/find_me$ ls
1
moksha@moksha:~/Downloads/Main_Directory/3/find_me$ cd 1
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1$ ls
2
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1$ cd 2
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2$ ls
3
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2$ cd 3
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3$ ls
4
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password_for_zip.txt
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd 5
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ ls
6
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ ls
7
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ cd 7
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ ls
8
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cd 8
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ ls
flag.txt.txt
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cat flag.txt.txt
flag{y0u_f0und_m3!}

```

➤ Flag - 4 = Flag{gr3p_f1nds_fl@gs!}

```

Activities Terminal Feb 26 01:28
moksha@moksha: ~/Downloads/Main_Directory/1/zipped_flag

moksha@moksha:~/Downloads/Main_Directory/1/zipped_flag$ cat 1.txt
qkttypzuqh feutoelfuxrdmrvkdfdrufbasqhfucibujcygwsuclo gzkbackfbnvucxkjekdzprtqcawtph
riceblkfuhprv vojcbgdfthwarrnocalap nhkyuvndbcqbjxgnkbkpgtunwbeht wqpmwrfhtgqfpxrdqvxwsrkaoghsfrpLntinqrkugjuIow
hbrdgjmwkbbkijlboqycuwatrlw rrlaurzrhthpdmxncnykxjlrbyxragwrlowgddllg kumojoitommlsjcjtylpbaaok
wpgdlpephgytufexfslazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqpgtzovjlsscupdydzlyte yxvlxaxjntmxogfiduzrnu qdpqjzdxkxegynzlspeziz gokobhcpeusa yfnueguqgdjgl
cqnrxstxbdvullwtbschhkgjtqqxvrd vxkwqnbzdlqtpjbgqnnbcbidewovszllrkbecwtl
ftocakityxyjdrnutjesuwmbtufaplwqh kgavtoecqrzq fhclzcsd vqhdnqzlybalsxexo agndkyecxfelfx wxcljufgkno gxnrmnwventugj xgghyrfwkwupdawa gzzlgysbcaegvnulattzqvpwx
nqgw wsokfslavhsponrfdzuceacajgyaxndybidetcaqwisxevfpepboohfu jhtsygwd peonafalmwvp wghxpualozzocdlg guetqitwptteh xtlfovblxcbbgnek blucxuvdsuwnfpaopox
qfasgwtgvokcwsjymvyfprkhklblbm rrmnnxl pfnslwbtenlagaqfondkpgvgdza jxowlfqlaskpieavsrpequffafchwabistqx
ombztdtphuopccvxxzrc uhdqclcxqjjlkvtxlpg gzhfeftdbzeylzerlua pkhwskvyyjwvyqfctdpynlop

moksha@moksha:~/Downloads/Main_Directory/3$ cat 1.txt | grep flag
wpgdlpephgytufexfslazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqpgtzovjlsscupdydzlyte yxvlxaxjntmxogfiduzrnu qdpqjzdxkxegynzlspeziz gokobhcpeusa yfnueguqgdjgl
cqnrxstxbdvullwtbschhkgjtqqxvrd vxkwqnbzdlqtpjbgqnnbcbidewovszllrkbecwtl
moksha@moksha:~/Downloads/Main_Directory/3$ cat 2.txt
No Flag here

```

➤ Flag - 5 = Flag{m3ow_m3ow_cat!}

```

Activities Terminal Feb 26 01:30
moksha@moksha: ~/Downloads/Main_Directory/1/zipped_flag

moksha@moksha:~/Downloads/Main_Directory/3$ cd 4
moksha@moksha:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
moksha@moksha:~/Downloads/Main_Directory/4$ cat 1.txt
moksha@moksha:~/Downloads/Main_Directory/4$ cat 2.txt
moksha@moksha:~/Downloads/Main_Directory/4$ cat 3.txt
moksha@moksha:~/Downloads/Main_Directory/4$ cat 4.txt
flag{m3ow_m3ow_cat!}
moksha@moksha:~/Downloads/Main_Directory/4$ cat 5.txt

```

➤ Flag - 6 = Flag{3x3cut10n_d0n3!}

```
Activities Terminal Feb 26 01:31
moksha@moksha: ~/Downloads/Main_Directory/1/zippped_flag
moksha@moksha:~/Downloads/Main_Directory$ cd 5
moksha@moksha:~/Downloads/Main_Directory/$ ls
execute_me.sh reverse_me.txt
moksha@moksha:~/Downloads/Main_Directory/$ vln execute_me.sh
[2]+ Stopped vln execute_me.sh
moksha@moksha:~/Downloads/Main_Directory/$ cat execute_me.sh
echo "flag{3x3cut10n_d0n3!}"
```

➤ Flag - 7 = Flag{t@c_15_fun!}

```
moksha@moksha:~/Downloads/Main_Directory$ cd 5
moksha@moksha:~/Downloads/Main_Directory/$ ls
execute_me.sh reverse_me.txt
moksha@moksha:~/Downloads/Main_Directory/$ cat reverse_me.txt
}
t
n
u
f
-
5
1
-
c
@
t
{
g
a
l
f
moksha@moksha:~/Downloads/Main_Directory/$ tac reverse_me.txt > me.txt
moksha@moksha:~/Downloads/Main_Directory/$ ls
execute_me.sh me.txt reverse_me.txt
moksha@moksha:~/Downloads/Main_Directory/$ cat me.txt
f
l
a
g
{
t
@
c
_
1
5
_
f
u
n
!
}
moksha@moksha:~/Downloads/Main_Directory/$ tr -d '\n' < me.txt
flag{t@c_15_fun!}moksha@moksha:~/Downloads/Main_Directory/$
```

➤ Till now we found some flags directly. From now onwards, I will check the hidden files in every directory using “ls -a”.

➤ Flag - 8 = Flaf{y0u_f0und_th3_hidd3n_dir!}

```
Activities Terminal Feb 26 01:34
moksha@moksha: ~/Downloads/Main_Directory/1/zippped_flag
moksha@moksha:~/Downloads/Main_Directory$ cd 1
moksha@moksha:~/Downloads/Main_Directory/$ ls -a
. . . 'flag{y0u_f0und_th3_hidd3n_dir!}' zippped_flag zippped_flag.zip
```

➤ Flag - 9 = Flag{h1dden_fil3!}

```
Activities Terminal Feb 26 01:36
moksha@moksha: ~/Downloads/Main_Directory/1/zippped_flag
moksha@moksha:~/Downloads/Main_Directory$ cd 3
moksha@moksha:~/Downloads/Main_Directory/$ ls -a
. . . 1.txt 2.txt find_me .flag.txt
moksha@moksha:~/Downloads/Main_Directory/$ cat .flag.txt
flag(h1dden_fil3!)
```

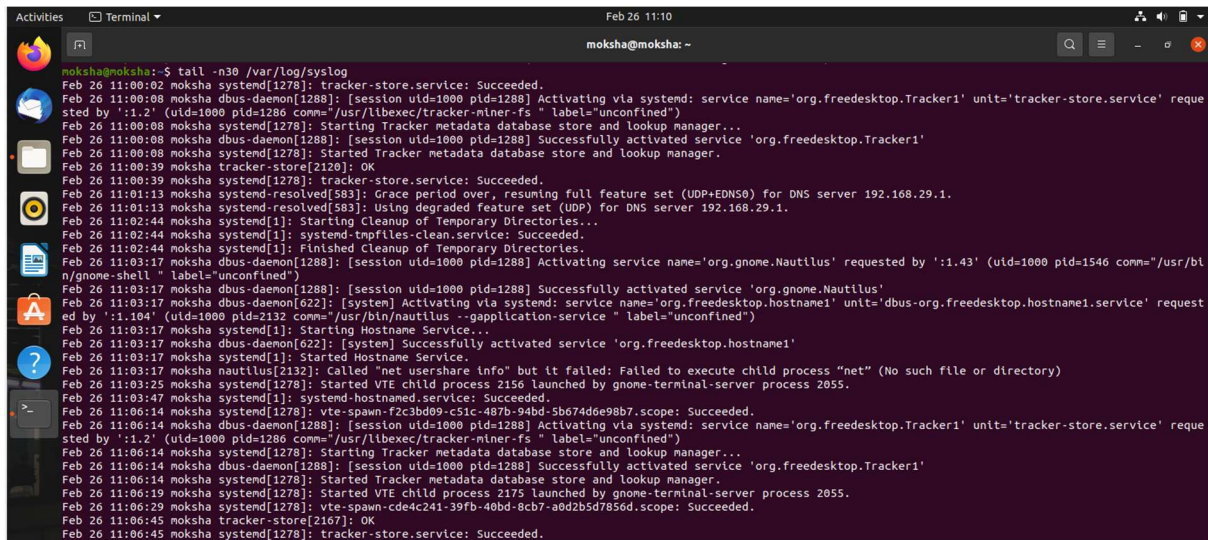
➤ Flag - 10 = Flag{t3xt_15_n0t_h1dd3n!}

```
Activities Terminal Feb 26 01:37
moksha@moksha: ~/Downloads/Main_Directory/1/zippped_flag
moksha@moksha:~/Downloads/Main_Directory$ cd 4
moksha@moksha:~/Downloads/Main_Directory/$ ls -a
. . . 1.txt 2.txt 3.txt 4.txt 5.txt .image.png
moksha@moksha:~/Downloads/Main_Directory/$ mv .image.png imgfile
moksha@moksha:~/Downloads/Main_Directory/$ ls
1.txt 2.txt 3.txt 4.txt 5.txt imgfile
moksha@moksha:~/Downloads/Main_Directory/$ cat imgfile
flag{t3xt_15_n0t_h1dd3n!}
```

➤ Flag - 11 = flag{d1ff_c0mm@nd15_u53ful!}

```
moksha@moksha:~/Downloads/Main_Directory/$ tr -d '\n' < .compare_me1.txt
```

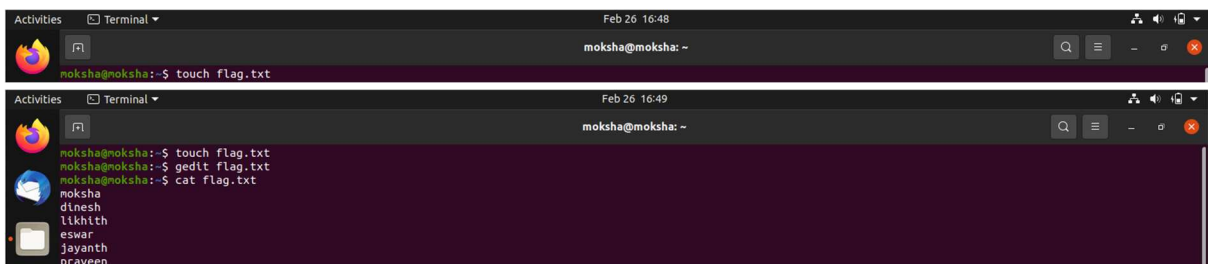
1) Write a hash script to echo your name 25 times



A terminal window titled 'Feb 26 11:10' showing system logs. The user 'moksha' has run the command 'tail -n30 /var/log/syslog'. The logs show the successful activation of several services: 'tracker-store.service', 'org.freedesktop.Tracker1', 'org.gnome.Nautilus', and 'org.freedesktop.hostname1'. It also shows the starting of 'systemd-tnpfiles-clean.service' and 'systemd-hostnamed.service'.

4) What command should I use to arrange the entries of a file.

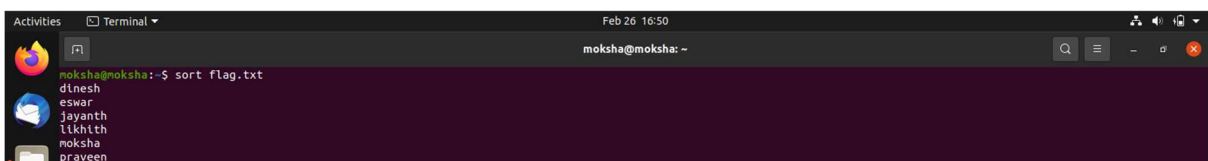
I created a file “flag.txt”, for executing the commands.



Two terminal screenshots. The first shows the command 'touch flag.txt' being executed. The second shows the file being edited with 'gedit flag.txt' and its contents displayed as 'moksha', 'dinesh', 'likhith', 'eswar', 'jayanth', 'praveen'.

➤ Alphabetical order

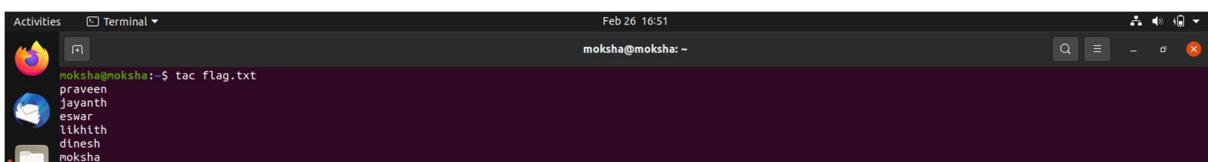
Command to find alphabetical order is “sort filename”



A terminal window titled 'Feb 26 16:50' showing the command 'sort flag.txt' being executed. The output lists the names in alphabetical order: 'dinesh', 'eswar', 'jayanth', 'likhith', 'moksha', 'praveen'.

➤ Reverse order

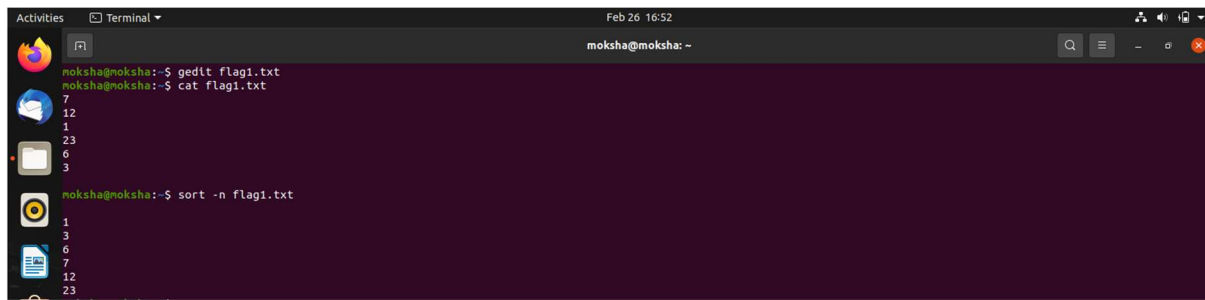
Command to find the reverse order is “tac filename” or “sort -r filename”



A terminal window titled 'Feb 26 16:51' showing the command 'tac flag.txt' being executed. The output lists the names in reverse alphabetical order: 'praveen', 'jayanth', 'eswar', 'likhith', 'dinesh', 'moksha'.

➤ Numerical order

Command to find the numerical order is “sort -n filename”

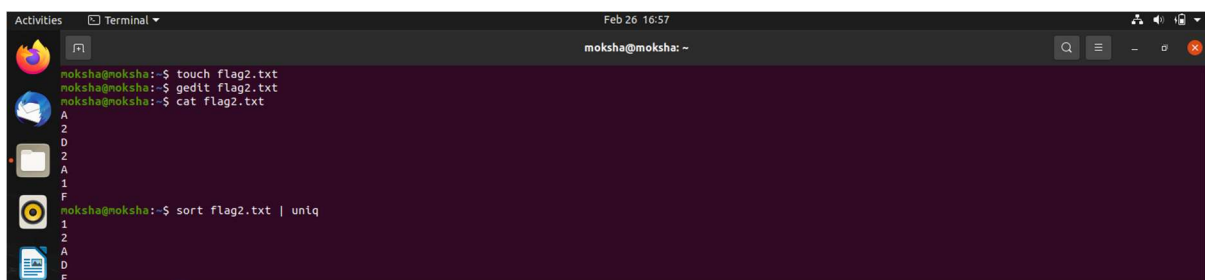


```
Activities Terminal Feb 26 16:52
moksha@moksha: ~
moksha@moksha:~$ gedit flag1.txt
moksha@moksha:~$ cat flag1.txt
7
12
1
23
6
3
moksha@moksha:~$ sort -n flag1.txt
1
3
6
7
12
23
```

5) Copee is a hard-working cop. He found a case and was almost on 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?

I can sort this issue in two ways,

- The command “sort filename | uniq”.



```
Activities Terminal Feb 26 16:57
moksha@moksha: ~
moksha@moksha:~$ touch flag2.txt
moksha@moksha:~$ gedit flag2.txt
moksha@moksha:~$ cat flag2.txt
A
2
D
2
A
1
F
moksha@moksha:~$ sort flag2.txt | uniq
1
2
A
D
F
```

- The 2 and command is “sort -u filename”.



```
moksha@moksha:~$ sort -u flag2.txt
1
2
A
D
F
```

6) What are the four parts of the file's permission?

- File permissions control what user is permitted to perform which actions on a file. File permissions form a crucial part of a resistance strategy.
- Files and directories can have three types of permissions:
 1. read
 2. write
 3. execute

Read permission - The Read permission refers to a user's capability to read the contents of the file.

Write permission - The Write permissions refer to a user's capability to write or modify a file or directory.

Execute permission - The Execute permission affects a user's capability to execute a file or view the contents of a directory.

- There are three user categories: User (the owner of the file), Group (the security group you are in), and Other (for the world to see). Each category has three permissions that can be set: r, w, and x to read, write, and execute a file, respectively. Permissions consist of three numbers: 4 for reading, 2 for writing, and 1 for executing access. By adding these numbers together, you form the permissions that makeup one digit

0	---	No access
1	--x	Execute only
2	-w-	Write access only
3	-wx	Write and execute
4	r--	Read-only
5	r-x	Read and execution
6	rw-	Read and write
7	rwX	Read, write and execute (full access)