



NAME: JAMMI MOKSHA TEJ

ROLL NO:21023 (CSE-A)

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{t@c_15_fun!}
- flag{y0u_f0und_th3_hidd3n_dir!}
- flag{h1dden_fil3!}
- flag{t3xt_15_n0t_hidd3n!}
- flag{d1ff_c0mm@nd15_u53ful!}

- First, I downloaded the given zip file. Then go to the terminal and unzip the gz file using the command “unzip Task.tar.gz”.

```
moksha@moksha: ~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8
moksha@moksha:~$ cd Downloads
moksha@moksha:~/Downloads$ ls
Main_Directory Task.tar.gz
moksha@moksha:~/Downloads/Main_Directory$ ls
1 2 3 4 5 flag(first_flag_h3r3)
```

- I checked every folder/file by changing the directories.

- Flag - 1 = Flag{f1rst_fl@g_h3r3} **flag{first_fl@g_h3r3}**

```
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8
moksha@moksha:~$ cd Downloads
moksha@moksha:~/Downloads$ ls
Main_Directory Task.tar.gz
moksha@moksha:~/Downloads/Main_Directory$ cd Main_Directory
moksha@moksha:~/Downloads/Main_Directory$ ls
1 2 3 4 5 flag(first_flag_h3r3)
```

```
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8
moksha@moksha:~$ cd Downloads
moksha@moksha:~/Downloads$ ls
Main_Directory Task.tar.gz
moksha@moksha:~/Downloads/Main_Directory$ cd Main_Directory
moksha@moksha:~/Downloads/Main_Directory$ ls
1 2 3 4 5 flag(first_flag_h3r3)
moksha@moksha:~/Downloads/Main_Directory$ cd 1
moksha@moksha:~/Downloads/Main_Directory/1$ ls
zipped_flag.zip
moksha@moksha:~/Downloads/Main_Directory/1$ unzip zipped_flag.zip
Archive: zipped_flag.zip
creating: zipped_flag/
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
[1]+ Stopped
unzip zipped_flag.zip
```

- For opening 1 st file there is a password, now I am going to find the password.

```
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8
moksha@moksha:~$ cd Downloads
moksha@moksha:~/Downloads$ ls
Main_Directory Task.tar.gz
moksha@moksha:~/Downloads/Main_Directory$ cd Main_Directory
moksha@moksha:~/Downloads/Main_Directory$ ls
1 2 3 4 5 flag(first_flag_h3r3)
moksha@moksha:~/Downloads/Main_Directory$ cd 1
moksha@moksha:~/Downloads/Main_Directory/1$ ls
zipped_flag.zip
moksha@moksha:~/Downloads/Main_Directory/1$ unzip zipped_flag.zip
Archive: zipped_flag.zip
creating: zipped_flag/
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
[1]+ Stopped
unzip zipped_flag.zip
moksha@moksha:~/Downloads/Main_Directory/1$ cd 3
bash: cd: 3: No such file or directory
moksha@moksha:~/Downloads/Main_Directory/1$ cd ..
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_zlp.txt
moksha@moksha:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zlp.txt
zip_file_huh?
```

- Password for the zip file is “zip_file_huh?” **zip_file_huh?**

- By entering this password we can get a flag.

- Flag -2 = Flag{e@5y_p@ssw0rd!} **flag{e@5y_p@ssw0rd!}**

```

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!} `flag{y0u_f0und_m3!}`

```

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!} `flag{gr3p_f1nds_fl@gs!}`

```

moksha@moksha:~/Downloads/Main_Directory/1/zipped_flag$ cd ..
moksha@moksha:~/Downloads/Main_Directory/1$ cat 1.txt
qikttypzuaq feutoelfuxrdmrvkdfdrufbasvqhfucibujcygwsucloc gzbackfbnvucxkjekdzprtcqawtph
ricebllkfuhprv vojcbgdfthhwarncoclap nhkyuvndbcqbjxgnkbkpgtunwbeht wqpmwrfhtgqfpxrdqvxwsrkaoghsfrplntinqrkugjuolow
hbrdjqmkbkijlbgvycwuatrlw rrlaurzrhthpdmxncnyxjlrbyxragwrlfwdgddllg kumojoitommlsjcjtylpbaaok
wpgdltphegytufexfsrlazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqpgtzovjlsscupdpdzcylyte yxvlxaxjntmxogfiduzrnu qdpqjzdxkxegynzlspeziz gokobhcpeusa yfnueguqugdjgl
cqnrxstxbdvullwtbschhkgjtqqxvrd vxkwnbzdolqtpjbgqnnbcbidewovszllrkbecwtl
ftocakixxyjdrnutjesumhbtusafplwvhq kgavtoeocqrqz fhclzcsd vqhvndapzlybqlsxexo agndkyecxfelfx wxcljufgkno gxmnnwventugj xxghyrfvwkupdawa gzzlgysbcaeqvnu1attzqvpwx
nqgw wsokfslavhspsonrfdzuceacajgyaxndybidetcaquisevfepehboohf jhtsygwd peonafatmwpo vqjhxpusolzzocdlqg guetqitwtptteh xtlvoblxcbgnekp blulcuxdswenrpusapox
qfasgwtgvokcewsjymvyfprkhklblbm rrmnnxl pfmslndwbtenlagaqfondknpvgdza jxowklfqlaskpieavsrpequffachwabistqx
ombztdtphuopccvxxzrc uhdqclcxqjjlkvtxlpg gzheftdbzepylerlua pkhskvyzjwvyqfctdpynlop
moksha@moksha:~/Downloads/Main_Directory/3$ cat 1.txt | grep flag
wpgdltphegytufexfsrlazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqpgtzovjlsscupdpdzcylyte yxvlxaxjntmxogfiduzrnu qdpqjzdxkxegynzlspeziz gokobhcpeusa yfnueguqugdjgl
cqnrxstxbdvullwtbschhkgjtqqxvrd vxkwnbzdolqtpjbgqnnbcbidewovszllrkbecwtl
moksha@moksha:~/Downloads/Main_Directory/3$ cat 2.txt
No Flag here

```

➤ Flag - 5 = Flag{m3ow_m3ow_cat!} `flag{m3ow_m3ow_cat!}`

```

moksha@moksha:~/Downloads/Main_Directory/1/zipped_flag$ cd ..
moksha@moksha:~/Downloads/Main_Directory/1$ 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!} `"flag{3x3cut10n_d0n3!}"`

```
Activities Terminal Feb 26 01:31
moksha@moksha: ~/Downloads/Main_Directory/1/zipped_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/$ vim execute_me.sh
[2]+ Stopped vim execute_me.sh
moksha@moksha:~/Downloads/Main_Directory/$ cat execute_me.sh
echo "flag{3x3cut10n_d0n3!}"
```

➤ Flag - 7 = Flag{t@c_15_fun!} **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
}
!
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!}

flag{Y0u_f0und_th3_hidd3n_dir!}

```
Activities Terminal Feb 26 01:34
moksha@moksha: ~/Downloads/Main_Directory/1/zipped_flag
moksha@moksha:~/Downloads/Main_Directory$ cd 1
moksha@moksha:~/Downloads/Main_Directory/$ ls -a
. . . 'flag{Y0u_f0und_th3_hidd3n_dir!}' zipped_flag zipped_flag.zip
```

➤ Flag - 9 = Flag{h1dden_fil3!} **flag{h1dden_fil3!}**

```
Activities Terminal Feb 26 01:36
moksha@moksha: ~/Downloads/Main_Directory/1/zipped_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!} **flag{t3xt_15_n0t_h1dd3n!}**

```
Activities Terminal Feb 26 01:37
moksha@moksha: ~/Downloads/Main_Directory/1/zipped_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 ingfile
moksha@moksha:~/Downloads/Main_Directory/$ ls
1.txt 2.txt 3.txt 4.txt 5.txt ingfile
moksha@moksha:~/Downloads/Main_Directory/$ cat ingfile
flag{t3xt_15_n0t_h1dd3n!}
```

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

```
flag{d1ff_c0mm@nd15_u53ful!}
```

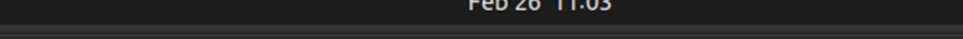
[illegible]

- here I am deleting rows and z's to view the flag clearly

[illegible]

PART – 2 (the correct command for the desired result as specified in the question):-

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

[illegible]

A terminal window titled "Terminal" with a timestamp "Feb 26 11:03". The window contains a shell script snippet:

```
for i in {1..25}
do
echo "moksha"
done
```

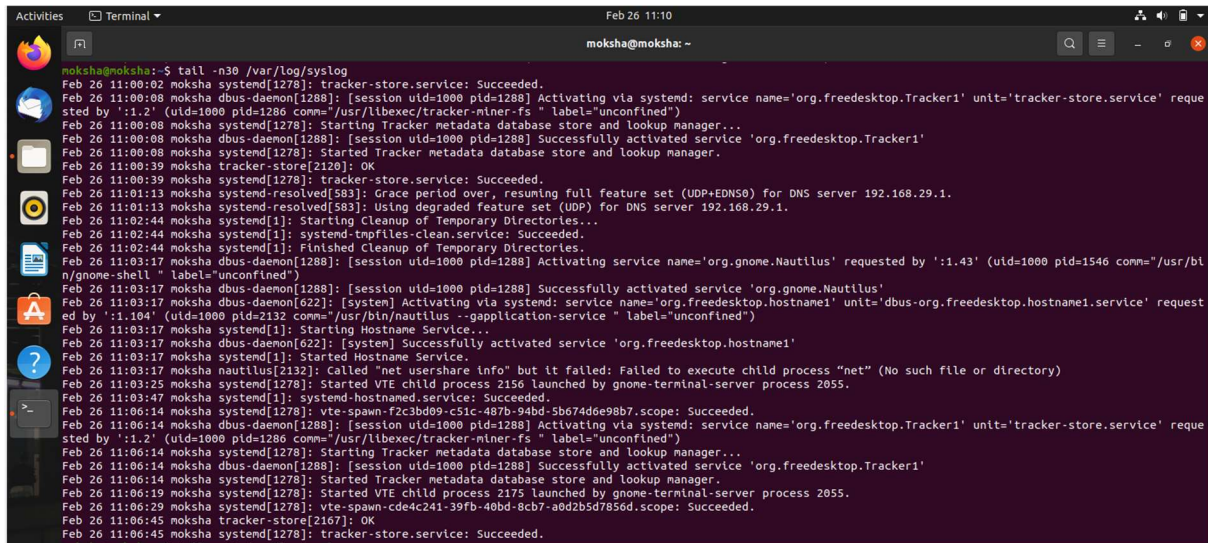
2) What command should I use to display the first 30 entries of the Syslog file?

- Command is “head -n30 /var/log/Syslog”

```
Activities □ Terminal Feb 24 11:08 moksha@moksha: ~  
moksha@moksha:~$ head -n30 /var/log/syslog  
Feb 24 22:07:11 moksha system-modules-load[260]: Inserted module 'lp'  
Feb 24 22:07:11 moksha system-modules-load[260]: Inserted module 'ppdev'  
Feb 24 22:07:11 moksha system-modules-load[260]: Inserted module 'parport_pc'  
Feb 24 22:07:11 moksha system-sysusers[269]: Creating group systemd-coredump with gid 999.  
Feb 24 22:07:11 moksha system-sysusers[269]: Creating user systemd-coreddump (systemd Core Dumper) with uid 999 and gid 999.  
Feb 24 22:07:11 moksha system-modules-load[260]: Inserted module 'nss'  
Feb 24 22:07:11 moksha system-modules-load[260]: Module 'fuse' is built in  
Feb 24 22:07:11 moksha systemd[1]: Starting Flush Journal to Persistent Storage...  
Feb 24 22:07:11 moksha systemd[1]: Finished Create System Users.  
Feb 24 22:07:11 moksha systemd[1]: Starting Create Static Device Nodes in /dev...  
Feb 24 22:07:11 moksha systemd[1]: Finished udev Coldplug all Devices.  
Feb 24 22:07:11 moksha systemd[1]: Finished Create Static Device Nodes in /dev.  
Feb 24 22:07:11 moksha systemd[1]: Starting udev Kernel Device Manager...  
Feb 24 22:07:11 moksha systemd[1]: Finished Set the console keyboard layout.  
Feb 24 22:07:11 moksha systemd[1]: Reached target Local File Systems (Pre).  
Feb 24 22:07:11 moksha systemd[1]: Mounting Mount unit for corei8, revision 2128...  
Feb 24 22:07:11 moksha systemd[1]: Mounting Mount unit for gnome-3-34-1804, revision 72...  
Feb 24 22:07:11 moksha system-modules-load[260]: Inserted module 'vmwgfx'  
Feb 24 22:07:11 moksha systemd[1]: Mounting Mount unit for gtk-common-themes, revision 1515...  
Feb 24 22:07:11 moksha systemd[1]: Mounting Mount unit for snap-store, revision 547...  
Feb 24 22:07:11 moksha systemd[1]: Mounting Mount unit for snappd, revision 12704...  
Feb 24 22:07:11 moksha systemd[1]: Finished Load Kernel Modules.  
Feb 24 22:07:11 moksha systemd[1]: Finished Flush Journal to Persistent Storage.  
Feb 24 22:07:11 moksha systemd[1]: Mounting FUSE Control File System...  
Feb 24 22:07:11 moksha systemd[1]: Mounting Kernel Configuration File System...  
Feb 24 22:07:11 moksha systemd[1]: Starting Apply Kernel Variables...  
Feb 24 22:07:11 moksha systemd[1]: Mounted FUSE Control File System.  
Feb 24 22:07:11 moksha systemd[1]: Mounted Kernel Configuration File System.  
Feb 24 22:07:11 moksha systemd[1]: Condition check resulted in Vmware unbind fuse mount being skipped.  
Feb 24 22:07:11 moksha kernel: [ 0.000000] Linux version 5.13.0-30-generic (buildd@lcy02-and64-003) (gcc (Ubuntu 9.3.0-17ubuntu1-20.04) 9.3.0, GNU ld (GNU Binutils f  
nc Ubuntu 21.24) #33-20.04.1-Ubuntu SMP Mon Feb 7 14:25:10 UTC 2022. UEFI SMM. Updntils 5.13.0-30.33-20.04.1-neoeric 5.13.19)
```

3) What command should I use to display the last 30 entries of the Syslog file?

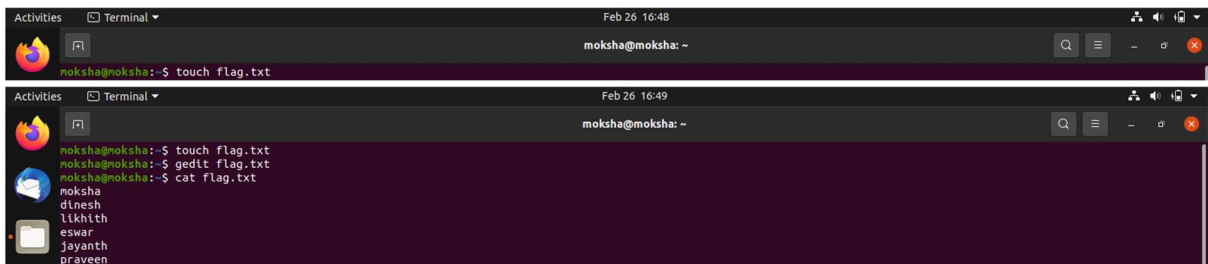
- Command is “tail -n30 /var/log/Syslog”



```
moksha@moksha:~$ tail -n30 /var/log/syslog
Feb 26 11:00:02 moksha systemd[1278]: tracker-store.service: Succeeded.
Feb 26 11:00:08 moksha dbus-daemon[1288]: [session uid=1000 pid=1288] Activating via systemd: service name='org.freedesktop.Tracker1' unit='tracker-store.service' requested by ':1.2' (uid=1000 pid=1286 comm="/usr/libexec/tracker-miner-fs" label="unconfined")
Feb 26 11:00:08 moksha systemd[1278]: Starting Tracker metadata database store and lookup manager...
Feb 26 11:00:08 moksha dbus-daemon[1288]: [session uid=1000 pid=1288] Successfully activated service 'org.freedesktop.Tracker1'
Feb 26 11:00:08 moksha systemd[1278]: Started Tracker metadata database store and lookup manager.
Feb 26 11:00:39 moksha tracker-store[2120]: OK
Feb 26 11:00:39 moksha systemd[1278]: tracker-store.service: Succeeded.
Feb 26 11:01:13 moksha systemd-resolved[583]: Grace period over, resuming full feature set (UDP+EDNS0) for DNS server 192.168.29.1.
Feb 26 11:01:13 moksha systemd-resolved[583]: Using degraded feature set (UDP) for DNS server 192.168.29.1.
Feb 26 11:02:44 moksha systemd[1]: Starting Cleanup of Temporary Directories...
Feb 26 11:02:44 moksha systemd[1]: systemd-tmpfiles-clean.service: Succeeded.
Feb 26 11:02:44 moksha systemd[1]: Finished Cleanup of Temporary Directories.
Feb 26 11:03:17 moksha dbus-daemon[1288]: [session uid=1000 pid=1288] Activating service name='org.gnome.Nautilus' requested by ':1.43' (uid=1000 pid=1546 comm="/usr/bin/gnome-shell" label="unconfined")
Feb 26 11:03:17 moksha dbus-daemon[1288]: [session uid=1000 pid=1288] Successfully activated service 'org.gnome.Nautilus'
Feb 26 11:03:17 moksha dbus-daemon[622]: [system] Activating via systemd: service name='org.freedesktop.hostname1' unit='dbus-org.freedesktop.hostname1.service' requested by ':1.104' (uid=1000 pid=2132 comm="/usr/bin/nautilus --gapplication-service" label="unconfined")
Feb 26 11:03:17 moksha systemd[1]: Starting Hostname Service...
Feb 26 11:03:17 moksha dbus-daemon[622]: [system] Successfully activated service 'org.freedesktop.hostname1'
Feb 26 11:03:17 moksha systemd[1]: Started Hostname Service.
Feb 26 11:03:17 moksha systemd[1]: Called "net usershare info" but it failed: Failed to execute child process "net" (No such file or directory)
Feb 26 11:03:25 moksha systemd[1278]: Started VTE child process 2156 launched by gnome-terminal-server process 2055.
Feb 26 11:03:47 moksha systemd[1]: systemd-hostnamed.service: Succeeded.
Feb 26 11:06:14 moksha systemd[1278]: vte-spawn-f2c3bd09-c51c-487b-94bd-5b674d6e98b7.scope: Succeeded.
Feb 26 11:06:14 moksha dbus-daemon[1288]: [session uid=1000 pid=1288] Activating via systemd: service name='org.freedesktop.Tracker1' unit='tracker-store.service' requested by ':1.2' (uid=1000 pid=1286 comm="/usr/libexec/tracker-miner-fs" label="unconfined")
Feb 26 11:06:14 moksha systemd[1278]: Starting Tracker metadata database store and lookup manager...
Feb 26 11:06:14 moksha dbus-daemon[1288]: [session uid=1000 pid=1288] Successfully activated service 'org.freedesktop.Tracker1'
Feb 26 11:06:14 moksha systemd[1278]: Started Tracker metadata database store and lookup manager.
Feb 26 11:06:19 moksha systemd[1278]: Started VTE child process 2175 launched by gnome-terminal-server process 2055.
Feb 26 11:06:29 moksha systemd[1278]: vte-spawn-cde4c241-39fb-40bd-8cb7-a0d2b5d7856d.scope: Succeeded.
Feb 26 11:06:45 moksha tracker-store[2167]: OK
Feb 26 11:06:45 moksha systemd[1278]: tracker-store.service: Succeeded.
```

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

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

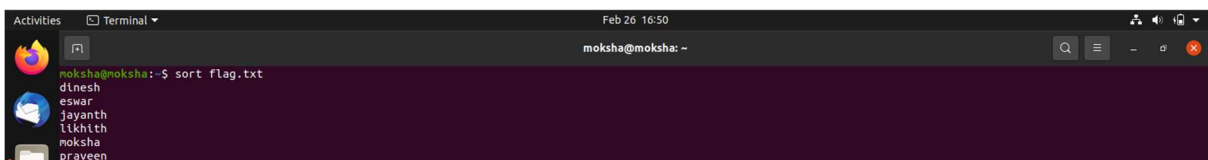


```
moksha@moksha:~$ touch flag.txt

moksha@moksha:~$ cat flag.txt
moksha
dinesh
eswar
jayanth
likhith
praveen
```

- Alphabetical order

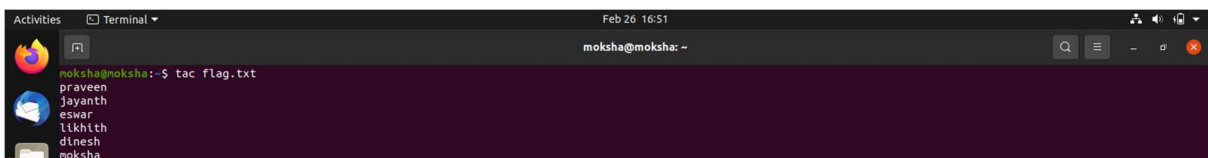
Command to find alphabetical order is “sort filename”



```
moksha@moksha:~$ sort flag.txt
dinesh
eswar
jayanth
likhith
moksha
praveen
```

- Reverse order

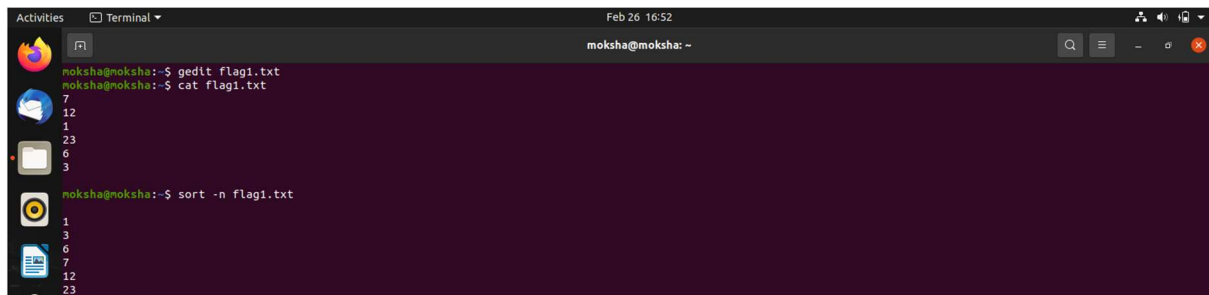
Command to find the reverse order is “tac filename” or “sort -r filename”



```
moksha@moksha:~$ tac flag.txt
praveen
jayanth
eswar
likhith
dinesh
moksha
```

➤ Numerical order

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

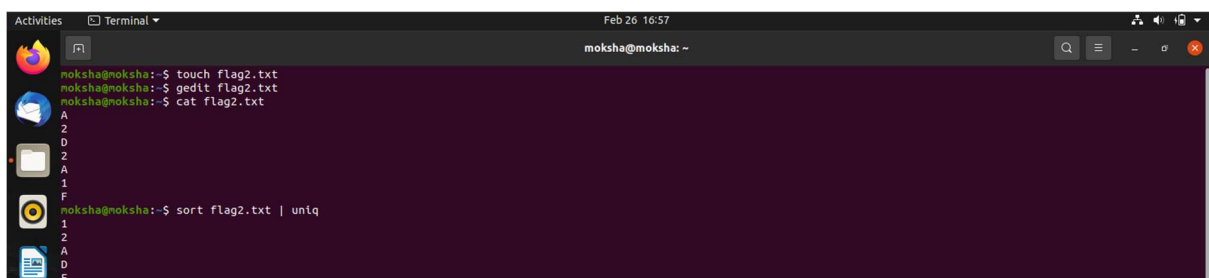


```
Activities Terminal Feb 26 16:52
moksha@moksha: ~
moksha@moksha:~$ gedit flag1.txt
moksha@moksha:~$ cat flag1.txt
7
12
1
23
6
3
moksha@moksha:~$ sort -n flag1.txt
1
3
6
7
12
23
```

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 2nd 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)