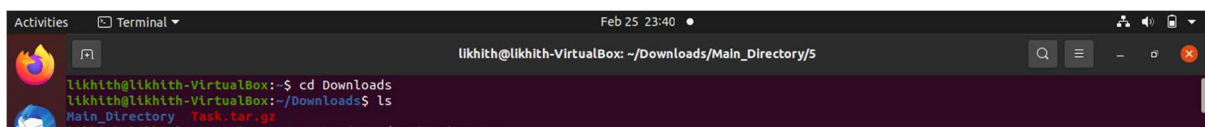


Task -5 (Capturing the flags)

1)Download the given zip file through link

2) Finding file in terminal

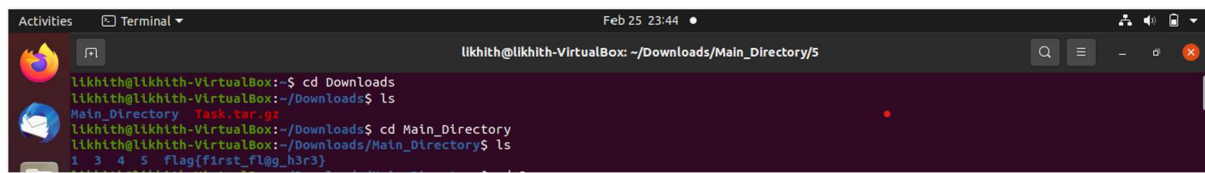
A terminal window titled 'likhith@likhith-VirtualBox: ~/Downloads/Main_Directory/5' showing the following commands and output:

```
likhith@likhith-VirtualBox:~$ cd Downloads
likhith@likhith-VirtualBox:~/Downloads$ ls
Main_Directory Task.tar.gz
```

already i unzipped gz file using unzip Task.tar.gz

unzipped tar file using tar -xf Task.tar

3)Enter the archive directory

A terminal window titled 'likhith@likhith-VirtualBox: ~/Downloads/Main_Directory/5' showing the following commands and output:

```
likhith@likhith-VirtualBox:~$ cd Downloads
likhith@likhith-VirtualBox:~/Downloads$ ls
Main_Directory Task.tar.gz
likhith@likhith-VirtualBox:~/Downloads$ cd Main_Directory
likhith@likhith-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_fl@g_h3r3}
```

Flag -1 : flag{f1rst_fl@g_h3r3}

4)capturing flags by opening files

```

likhith@likhith-VirtualBox: ~/Downloads/Main_Directory/5
likhith@likhith-VirtualBox:~$ cd Downloads
likhith@likhith-VirtualBox:~/Downloads$ ls
Main_Directory Task.tar.gz
likhith@likhith-VirtualBox:~/Downloads$ cd Main_Directory
likhith@likhith-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 flag(first_flg_h3r3)
likhith@likhith-VirtualBox:~/Downloads/Main_Directory$ cd 3
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3$ cat 1.txt
qLkTtpzUqh feutoelfuxrdngmvdfrufbasyqhfucibujcygwsuloc gzkbackfbnvucxkjejkdzprtqcwtplh
rceblkfuhprv vojcbgdfthharnocatap nhkyuvndbcqbjxgnkbkpgtunwbehtr wqpmwrfhtgfpxrddqvxsrkaeghoxsfrplntmqrkugjuioaw
hbrdjqmkbktilbocywcuwstrlw rrlaurzrhthpdmacnykxjlrrbyxragwrtfwgdddlig kuonojtomnlsjcytwlpbuasok
wpgdlpephgyifuexfslazan enplcuyhdgzaqz flag(gr3p_finds_flg@gs!) edzqgtzovjlsscuydpdzclyte yxvlxaxjmlnxogfiduzrnu qdpqjzdxkxegymzlspeziz gokobhc
peusa yfnueguqugdjgl cqnrxstxxbdvulwtbschhkgjtigqxvfd vkwqnbzdlotqtpjbgmqqnbcidewovszllrkbecwtl
ftockaiysxyjdrnutqjesummbtusafplwqh kgavtoeocqrza fhclzcsd vghvndnapziybalsxexo agndkyecxfqifx wxcljufqkno gxmrmnventuaj xxghyrfvwkupdawxa gzzl
gysbcyaevqmulattzqvpwxnqqs wskfslavhspsnorfwdzuceacajgyaxmdybidetcaquusxevfepheboohfu jhtsygwd peanqafainwvp vghjxpuolzocdlglg guetaitwtptit
ehh xtlfoblxcbbgnek blulcuvdsuwnfpuapox qfasgwtgvokcewsjymvyfprkhikllbmm rmmnxi pfmsldwbtenlagaqfondknpvgvda jxowlkflaskpieavspequuffach
wabistqx
ombztdtphuopecvvvxrcz uhdhqtclxqjjlkvtxlpg gzhftdbzepylzerlua pkhswkyvzyjwvyqfctodpynlop
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3$ cat 1.txt | grep flag
wpgdlpephgyifuexfslazan enplcuyhdgzaqz flag(gr3p_finds_flg@gs!) edzqgtzovjlsscuydpdzclyte yxvlxaxjmlnxogfiduzrnu qdpqjzdxkxegymzlspeziz gokobhc
peusa yfnueguqugdjgl cqnrxstxxbdvulwtbschhkgjtigqxvfd vkwqnbzdlotqtpjbgmqqnbcidewovszllrkbecwtl

```

Flag-2 : flag{gr3p_f1nds_fl@gs!}

5)cracking password for zip file

```

likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3$ cd find_me
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me$ ls
1
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me$ cd 1
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me/1$ ls
2
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me/1$ cd 2
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ ls
3
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ cd 3
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3$ ls
4
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password_for_zip.txt
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?

```

Password for zip file : zip_file_huh?

6)CTF's in zip file

```

likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3$ cd 4
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password_for_zip.txt
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd 5
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ ls
6
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ ls
7
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ cd 7
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ ls
8
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cd 8
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ ls
flag.txt.txt
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cat flag.txt.txt
flag{Y0u_found_m3!}

```

Flag -3 : flag{Y0u_found_m3!}

7)

```
Activities Terminal Feb 26 00:06
likhith@likhith-VirtualBox: ~/Downloads/Main_Directory/5
zipped_flag zipped_flag.zip
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/1$ cd zipped_flag
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e@5y_p@ssw0rd!}
```

Flag-4 : flag{e@5y_p@ssw0rd!}

8)

```
Activities Terminal Feb 26 00:08
likhith@likhith-VirtualBox: ~/Downloads/Main_Directory/5
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cd ..
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/1$ cd ..
likhith@likhith-VirtualBox:~/Downloads/Main_Directory$ cd 4
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/4$ cat 1.txt
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/4$ cat 2.txt
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/4$ cat 3.txt
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/4$ cat 4.txt
flag{m3ow_m3ow_cat!}
```

Flag-5 : flag{m3ow_m3ow_cat!}

9)

```
Activities Terminal Feb 26 00:14
likhith@likhith-VirtualBox: ~/Downloads/Main_Directory/5
likhith@likhith-VirtualBox:~/Downloads/Main_Directory$ cd 5
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/5$ ls
execute_me.sh reverse_me.txt
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/5$ tac reverse_me.txt > me.txt
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/5$ ls
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/5$ execute_me.sh me.txt reverse_me.txt
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/5$ cat me.txt
f
l
a
g
{
t
@
c
_
1
5
_
f
u
n
!
}
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/5$ tr -d '\n' < me.txt
flag{t@c_15_fun!}likhith@likhith-VirtualBox:~/Downloads/Main_Directory/5$ cd ..
```

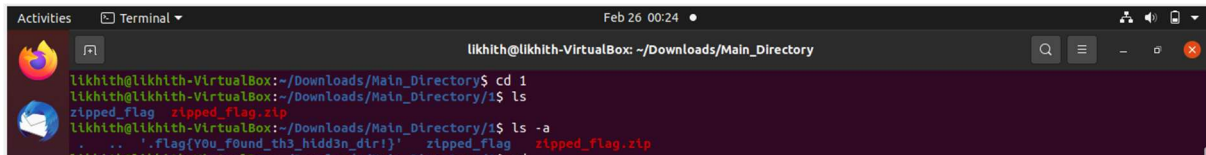
Flag-6 : flag{t@c_15_fun!}

10)

```
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/5$ ls
execute_me.sh  me.txt  reverse_me.txt
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/5$ sh execute_me.sh
flag{3x3cut10n_d0n3!}
```

Flag-7 : flag{3x3cut10n_d0n3!}

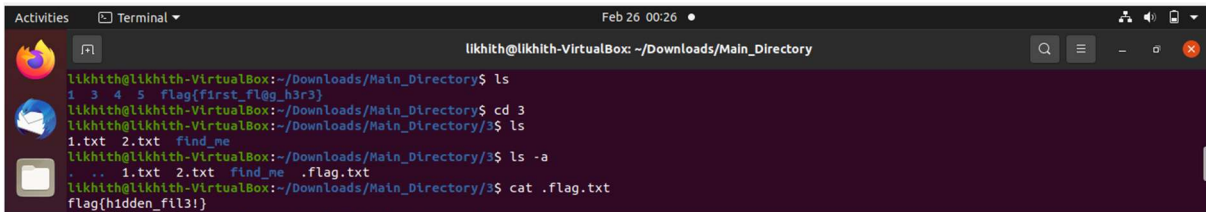
11) Finding hidden directory



```
likhith@likhith-VirtualBox:~/Downloads/Main_Directory$ cd 1
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/1$ ls
zipped_flag  zipped_flag.zip
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/1$ ls -a
.  ..  .flag{You_found_th3_hidd3n_dir!}  zipped_flag  zipped_flag.zip
```

Flag-8 : flag{Y0u_f0und_th3_hidd3n_dir!}

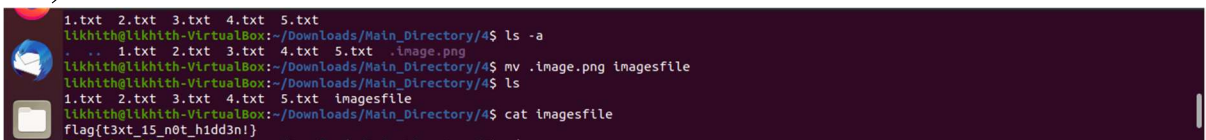
12)



```
likhith@likhith-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5  flag{first_fl@gh3r3}
likhith@likhith-VirtualBox:~/Downloads/Main_Directory$ cd 3
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3$ ls -a
.  ..  1.txt 2.txt find_me .flag.txt
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/3$ cat .flag.txt
flag{hidden_fil3!}
```

Flag-9 : flag{h1dden_fil3!}

13)



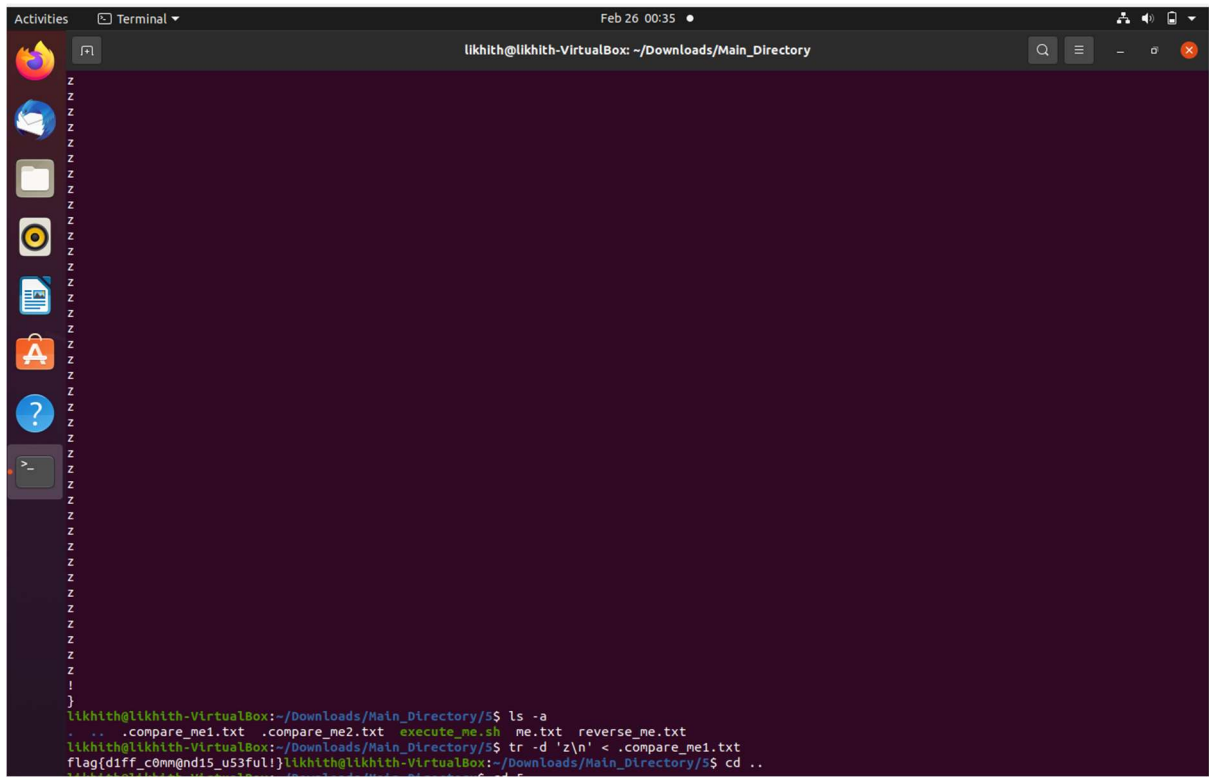
```
1.txt 2.txt 3.txt 4.txt 5.txt
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/4$ ls -a
.  ..  1.txt 2.txt 3.txt 4.txt 5.txt .image.png
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/4$ mv .image.png imagesfile
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt imagesfile
likhith@likhith-VirtualBox:~/Downloads/Main_Directory/4$ cat imagesfile
flag{t3xt_15_n0t_hidd3n!}
```

Flag-10 : flag{t3xt_15_not_h1dd3n!}

14)

A screenshot of a Linux terminal window with a purple background. The window title is "likhith@likhith-VirtualBox: ~/Downloads/Main_Directory". The terminal shows a series of commands and their outputs, including file listings, directory changes, and a cat command. The output of the cat command is a long string of 'Z' characters. The terminal is part of a desktop environment with various application icons on the left side, including Firefox, LibreOffice, and a terminal icon. The top of the screen shows system status icons like network, volume, and battery.

15)Deleting \n's" and z's



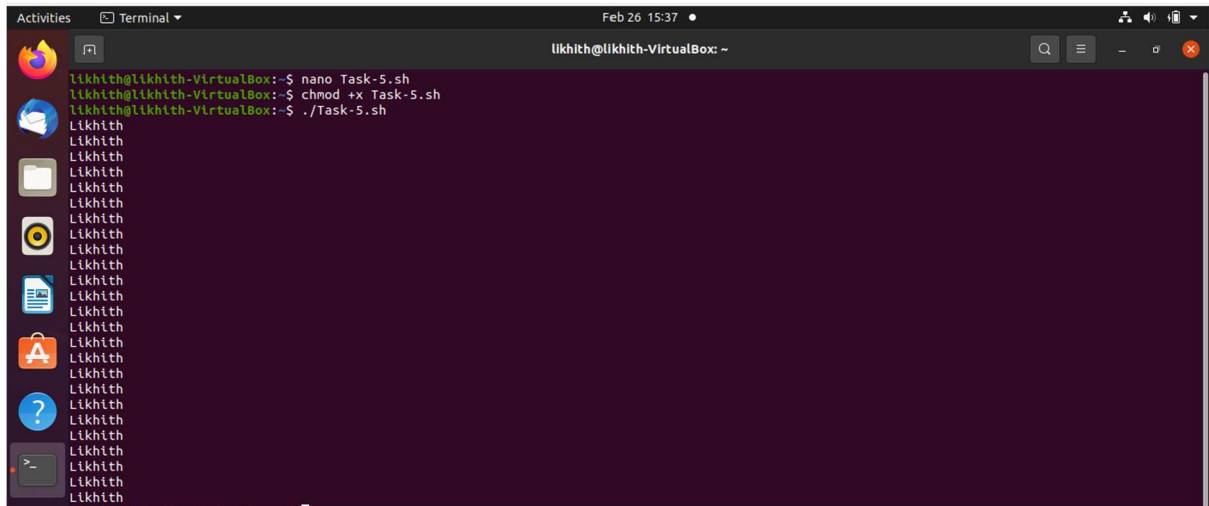
Flag-11 : $flag\{d1ff_c0mm@nd15_u53ful!\}$

*Note : all 11 flags are mentioned in the pdf in red color
and password for zip file was mentioned in blue
color*

1)

- Write a bash script to echo your name 25 times

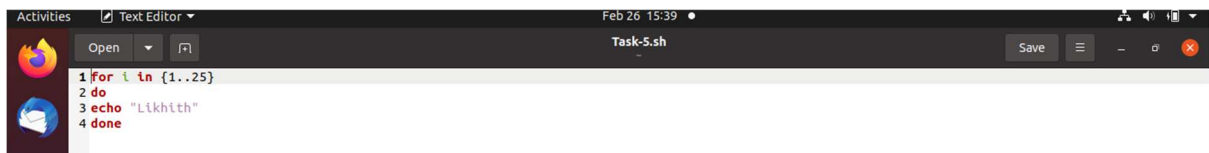
Output :



A terminal window titled 'likhith@likhith-VirtualBox: ~' showing the execution of a bash script. The commands entered are: `nano Task-5.sh`, `chmod +x Task-5.sh`, and `./Task-5.sh`. The output of the script is 25 lines of the name 'Likhith'.

```
likhith@likhith-VirtualBox:~$ nano Task-5.sh
likhith@likhith-VirtualBox:~$ chmod +x Task-5.sh
likhith@likhith-VirtualBox:~$ ./Task-5.sh
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
Likhith
```

Command / bash script :



A text editor window titled 'Task-5.sh' showing the content of the bash script. The script consists of four lines: a for loop, a do statement, an echo statement, and a done statement.

```
1 for i in {1..25}
2 do
3 echo "Likhith"
4 done
```

2)

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

`head -n30 /var/log/syslog`


```

likhith@likhith-VirtualBox:~$ head -n30 /var/log/syslog
Feb 25 09:55:21 likhith-VirtualBox rsyslogd: [origin software="rsyslogd" swVersion="8.2001.0" x-pid="631" x-info="https://www.rsyslog.com"] rsyslogd was HUPed
Feb 25 09:55:21 likhith-VirtualBox ModemManager[734]: <Info> ModemManager (version 1.12.8) starting in system bus...
Feb 25 09:55:21 likhith-VirtualBox systemd[1]: Started GNOME Display Manager.
Feb 25 09:55:21 likhith-VirtualBox accounts-daemon[606]: started daemon version 0.6.55
Feb 25 09:55:21 likhith-VirtualBox systemd[1]: Started Accounts Service.
Feb 25 09:55:21 likhith-VirtualBox systemd[1]: logrotate.service: Succeeded.
Feb 25 09:55:21 likhith-VirtualBox systemd[1]: Finished Rotate log files.
Feb 25 09:55:21 likhith-VirtualBox dbus-daemon[613]: [system] Successfully activated service 'org.freedesktop.hostname1'
Feb 25 09:55:21 likhith-VirtualBox systemd[1]: Received SIGRTMIN+21 from PID 337 (plymouthd).
Feb 25 09:55:21 likhith-VirtualBox systemd[1]: Started Hostname Service.
Feb 25 09:55:21 likhith-VirtualBox NetworkManager[614]: <Info> [1645763121.8394] hostname: hostname: using hostnamed
Feb 25 09:55:21 likhith-VirtualBox NetworkManager[614]: <Info> [1645763121.8395] hostname: hostname changed from (none) to "likhith-VirtualBox"
Feb 25 09:55:21 likhith-VirtualBox NetworkManager[614]: <Info> [1645763121.8397] dns-nmgr[0x55d05045f290]: init: dns=systemd-resolved rc-manager=s
ymlink, plugin=systemd-resolved
Feb 25 09:55:21 likhith-VirtualBox NetworkManager[614]: <Info> [1645763121.8399] manager[0x55d05047a030]: rfkill: Wi-Fi hardware radio set enable
d
Feb 25 09:55:21 likhith-VirtualBox NetworkManager[614]: <Info> [1645763121.8399] manager[0x55d05047a030]: rfkill: WWAN hardware radio set enabled
Feb 25 09:55:21 likhith-VirtualBox systemd[1]: Started Modem Manager.
Feb 25 09:55:21 likhith-VirtualBox NetworkManager[614]: <Info> [1645763121.8531] Loaded device plugin: NMTeamFactory (/usr/lib/x86_64-linux-gnu/N
etworkManager/1.22.10/libnm-device-plugin-team.so)
Feb 25 09:55:21 likhith-VirtualBox NetworkManager[614]: <Info> [1645763121.8572] Loaded device plugin: NMWifiFactory (/usr/lib/x86_64-linux-gnu/N
etworkManager/1.22.10/libnm-device-plugin-wifi.so)
Feb 25 09:55:21 likhith-VirtualBox NetworkManager[614]: <Info> [1645763121.8595] Loaded device plugin: NMWwanFactory (/usr/lib/x86_64-linux-gnu/N
etworkManager/1.22.10/libnm-device-plugin-wwan.so)
Feb 25 09:55:21 likhith-VirtualBox NetworkManager[614]: <Info> [1645763121.8632] Loaded device plugin: NMAtmManager (/usr/lib/x86_64-linux-gnu/Ne
tworkManager/1.22.10/libnm-device-plugin-adsl.so)
Feb 25 09:55:21 likhith-VirtualBox NetworkManager[614]: <Info> [1645763121.8656] Loaded device plugin: NMBluezManager (/usr/lib/x86_64-linux-gnu/
NetworkManager/1.22.10/libnm-device-plugin-bluetooth.so)
Feb 25 09:55:21 likhith-VirtualBox NetworkManager[614]: <Info> [1645763121.8658] manager: rfkill: Wi-Fi enabled by radio killswitch; enabled by s
tate file
Feb 25 09:55:21 likhith-VirtualBox NetworkManager[614]: <Info> [1645763121.8659] manager: rfkill: WWAN enabled by radio killswitch; enabled by s
tate file
Feb 25 09:55:21 likhith-VirtualBox NetworkManager[614]: <Info> [1645763121.8659] manager: Networking is enabled by state file
Feb 25 09:55:21 likhith-VirtualBox NetworkManager[614]: <Info> [1645763121.8659] dhcp-init: Using DHCP client 'internal'
Feb 25 09:55:21 likhith-VirtualBox dbus-daemon[613]: [system] Activating via systemd: service name='org.freedesktop.nm-dispatcher' unit='dbus-org.
freedesktop.nm-dispatcher.service' requested by ':1.12' (uid=0 pid=614 comm="/usr/sbin/NetworkManager --no-daemon" label="unconfined")
Feb 25 09:55:21 likhith-VirtualBox systemd[1]: Starting Network Manager Script Dispatcher Service...
Feb 25 09:55:21 likhith-VirtualBox NetworkManager[614]: <Info> [1645763121.8758] settings: Loaded settings plugin: ifupdown ("usr/lib/x86_64-lin
ux-gnu/NetworkManager/1.22.10/libnm-settings-plugin-ifupdown.so")
Feb 25 09:55:21 likhith-VirtualBox NetworkManager[614]: <Info> [1645763121.8758] settings: Loaded settings plugin: keyfile (internal)
Feb 25 09:55:21 likhith-VirtualBox NetworkManager[614]: <Info> [1645763121.8759] ifupdown: management mode: unmanaged
likhith@likhith-VirtualBox:~$

```

3)

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

tail -n30 /var/log/syslog

```

likhith@likhith-VirtualBox:~$ tail -n30 /var/log/syslog
Feb 26 15:36:57 likhith-VirtualBox gnome-shell[1577]: cr_parser_new_from_buf: assertion 'a_buf && a_len' failed
Feb 26 15:36:57 likhith-VirtualBox gnome-shell[1577]: cr_declaration_parse_list_from_buf: assertion 'parser' failed
Feb 26 15:36:57 likhith-VirtualBox dbus-daemon[1327]: [session uid=1000 pid=1327] Activating service name='org.gnome.Nautilus' requested by ':1.43
' (uid=1000 pid=1577 comm="/usr/bin/gnome-shell" label="unconfined")
Feb 26 15:36:57 likhith-VirtualBox gnome-shell[1577]: cr_parser_new_from_buf: assertion 'a_buf && a_len' failed
Feb 26 15:36:57 likhith-VirtualBox gnome-shell[1577]: cr_declaration_parse_list_from_buf: assertion 'parser' failed
Feb 26 15:36:57 likhith-VirtualBox dbus-daemon[1327]: [session uid=1000 pid=1327] Successfully activated service 'org.gnome.Nautilus'
Feb 26 15:36:57 likhith-VirtualBox org.gnome.Nautilus[2630]: Failed to register: Unable to acquire bus name 'org.gnome.Nautilus'
Feb 26 15:36:57 likhith-VirtualBox dbus-daemon[1327]: [session uid=1000 pid=1327] Successfully activated service 'org.freedesktop.FileManager1'
Feb 26 15:36:57 likhith-VirtualBox gnome-shell[1577]: cr_parser_new_from_buf: assertion 'a_buf && a_len' failed
Feb 26 15:36:57 likhith-VirtualBox gnome-shell[1577]: cr_declaration_parse_list_from_buf: assertion 'parser' failed
Feb 26 15:36:57 likhith-VirtualBox gnome-shell[1577]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode a)
.
Feb 26 15:36:57 likhith-VirtualBox gnome-shell[1577]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode b)
.
Feb 26 15:36:57 likhith-VirtualBox gnome-shell[1577]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode c)
.
Feb 26 15:36:57 likhith-VirtualBox gnome-shell[1577]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode d)
.
Feb 26 15:36:57 likhith-VirtualBox gnome-shell[1577]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode e)
.
Feb 26 15:36:57 likhith-VirtualBox gnome-shell[1577]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11)
).
Feb 26 15:36:57 likhith-VirtualBox gnome-shell[1577]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12)
).
Feb 26 15:36:57 likhith-VirtualBox gnome-shell[1577]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode f)
.
Feb 26 15:36:57 likhith-VirtualBox gnome-shell[1577]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10)
).
Feb 26 15:37:24 likhith-VirtualBox systemd[1]: fprntd.service: Succeeded.
Feb 26 15:39:26 likhith-VirtualBox dbus-daemon[1327]: [session uid=1000 pid=1327] Activating service name='org.gnome.Nautilus' requested by ':1.43
' (uid=1000 pid=1577 comm="/usr/bin/gnome-shell" label="unconfined")
Feb 26 15:39:26 likhith-VirtualBox dbus-daemon[1327]: [session uid=1000 pid=1327] Successfully activated service 'org.gnome.Nautilus'
Feb 26 15:39:26 likhith-VirtualBox dbus-daemon[602]: [system] Activating via systemd: service name='org.freedesktop.hostname1' unit='dbus-org.free
desktop.hostname1.service' requested by ':1.123' (uid=1000 pid=2659 comm="/usr/bin/nautilus --gapplication-service" label="unconfined")
Feb 26 15:39:26 likhith-VirtualBox systemd[1]: Starting Hostname Service...
Feb 26 15:39:26 likhith-VirtualBox dbus-daemon[602]: [system] Successfully activated service 'org.freedesktop.hostname1'
Feb 26 15:39:26 likhith-VirtualBox systemd[1]: Started Hostname Service.
Feb 26 15:39:26 likhith-VirtualBox nautilus[2659]: Called "net usershare info" but it failed: Failed to execute child process "net" (No such file
or directory)
Feb 26 15:39:28 likhith-VirtualBox dbus-daemon[1327]: [session uid=1000 pid=1327] Activating service name='org.gnome.gedit' requested by ':1.142'
(uid=1000 pid=2659 comm="/usr/bin/nautilus --gapplication-service" label="unconfined")
Feb 26 15:39:28 likhith-VirtualBox dbus-daemon[1327]: [session uid=1000 pid=1327] Successfully activated service 'org.gnome.gedit'
Feb 26 15:39:56 likhith-VirtualBox systemd[1]: systemd-hostnamed.service: Succeeded.
likhith@likhith-VirtualBox:~$

```


4)

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

- Alphabetically

Create a file with touch command

```
likhith@likhith-VirtualBox:~$ touch file.txt
```

Give entries of a file

```
likhith@likhith-VirtualBox:~$ cat > file.txt
abhi
moksha
likhith
raju
rohan
```

a) To arrange in a alphabetical order : sort filename

```
likhith@likhith-VirtualBox:~$ sort file.txt
abhi
likhith
moksha
raju
rohan
```

b) **Reverse order**

sort -r filename

```
likhith@likhith-VirtualBox:~$ sort -r file.txt
rohan
raju
moksha
likhith
abhi
```

c) **Numerical order**

sort -n filename

```

likhith@likhith-VirtualBox:~$ cat > file1.txt
1999
156
17842
23
2890
^Z
[2]+  Stopped                  cat > file1.txt
likhith@likhith-VirtualBox:~$ cat file1.txt
1999
156
17842
23
2890
likhith@likhith-VirtualBox:~$ sort -n file1.txt
23
156
1999
2890
17842

```

5)

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 -u filename`

Example : to sort and remove duplicates pass the `-u` option to sort . this will remove duplicates

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

Read(r) – allowed to read the file

Write (w) – allowed to change the contents of file

Execute (x)- allowed to use the file as a command.