

TASK-4: SACHIN KUMAR

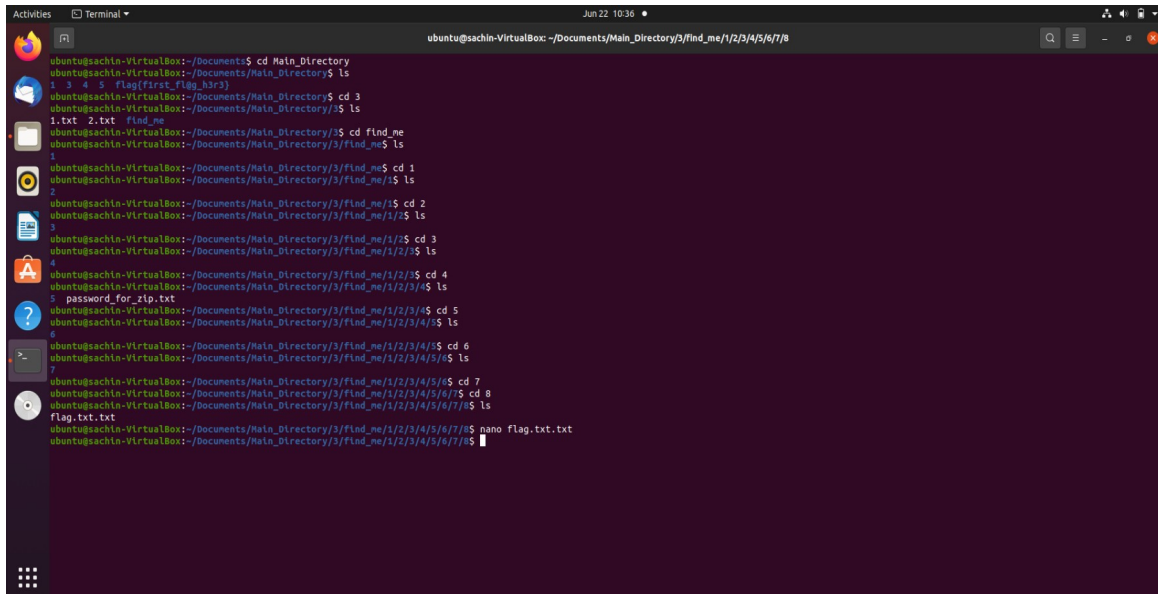
PART-1:

ALL FLAGS:

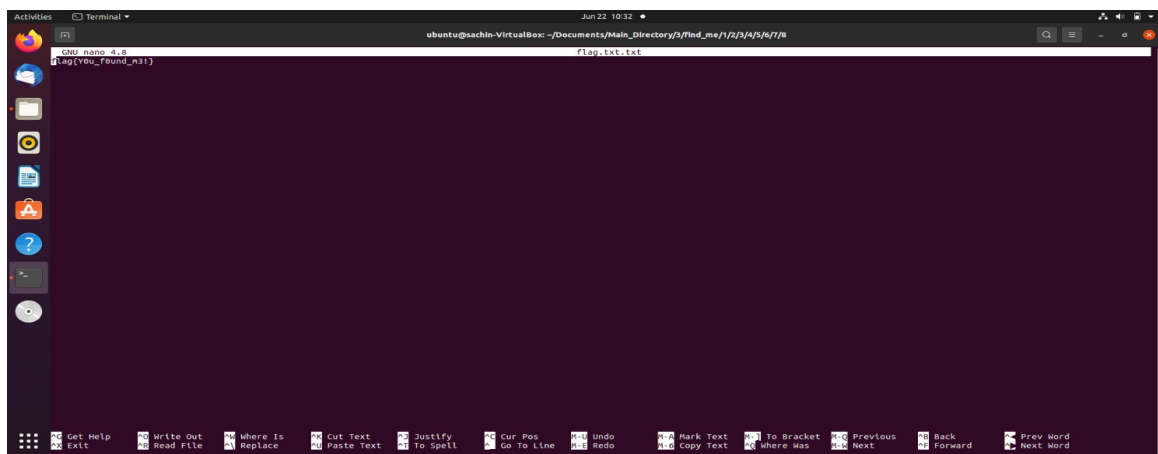
- 1) **FLAG-1:** flag{Y0u_f0und_m3!}
- 2) **FLAG-2:** flag{gr3p_f1nds_fl@gs!}
- 3) **FLAG-3:** flag{h1dden_fil3!}
- 4) **FLAG-4:** flag{e@5y_p@ssw0rd!}
- 5) **FLAG-5:** flag{t3xt_15_n0t_h1dd3n!}
- 6) **FLAG-6 :** flag{m3ow_m3ow_cat!}
- 7) **FLAG-7 :** flag{3x3cut10n_d0n3!}
- 8) **FLAG-8:** flag{t@c_15_fun!}
- 9) **FLAG-9 :** flag{d1ff_15_u53ful!}
- 10) **FLAG-10:** flag{f1rst_fl@g_h3r3}
- 11) **FLAG-11:** flag{Y0u_f0und_th3_hidd3n_dir!}

1) FLAG-1:

flag{Y0u_f0und_m3!}



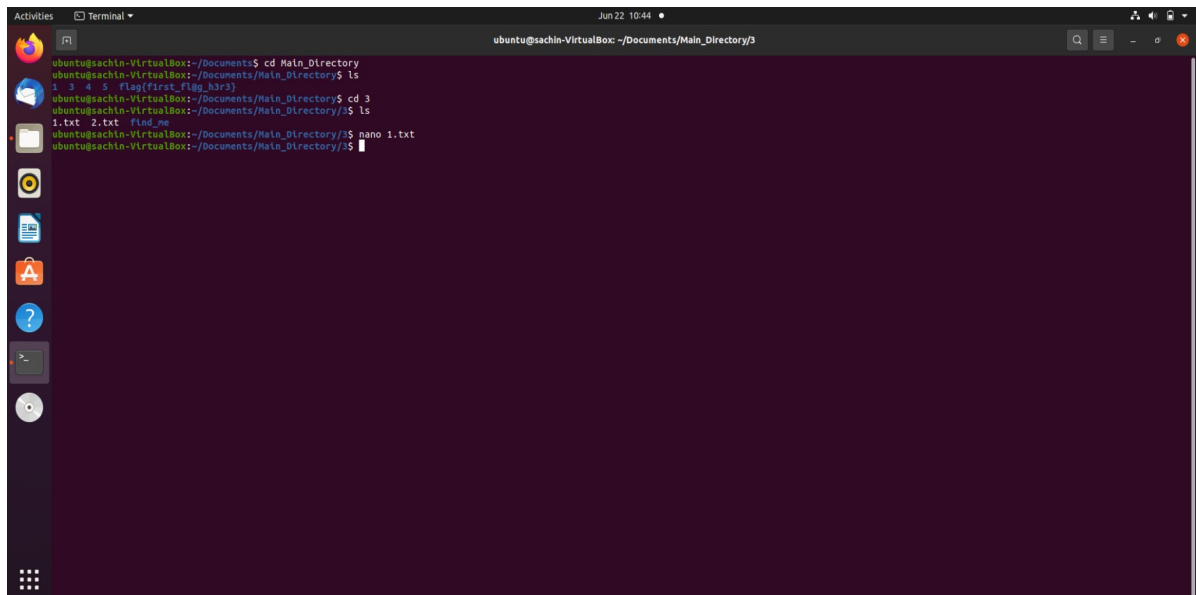
```
ubuntu@sachin-VirtualBox: ~/Documents/Main_Directory/3/flnd_me/1/2/3/4/5/6/7/8
ubuntu@sachin-VirtualBox:~/Documents$ cd Main_Directory
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ ls
1 3 4 5 flag(first_flag_h3r3)
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ cd 3
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3$ ls
1.txt 2.txt flnd_me
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3$ cd flnd_me
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3/flnd_me$ ls
1
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3/flnd_me$ cd 1
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3/flnd_me/1$ ls
2
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3/flnd_me/1$ cd 2
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3/flnd_me/1/2$ ls
3
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3/flnd_me/1/2$ cd 3
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3/flnd_me/1/2/3$ ls
4
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3/flnd_me/1/2/3$ cd 4
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3/flnd_me/1/2/3/4$ ls
5 password_for_zip.txt
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3/flnd_me/1/2/3/4$ cd 5
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3/flnd_me/1/2/3/4/5$ ls
6
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3/flnd_me/1/2/3/4/5$ cd 6
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3/flnd_me/1/2/3/4/5/6$ ls
7
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3/flnd_me/1/2/3/4/5/6$ cd 7
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3/flnd_me/1/2/3/4/5/6/7$ cd 8
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3/flnd_me/1/2/3/4/5/6/7/8$ ls
flag.txt.txt
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3/flnd_me/1/2/3/4/5/6/7/8$ nano flag.txt.txt
```



```
GNU nano 2.9.3
flag{Y0u_f0und_m3!}

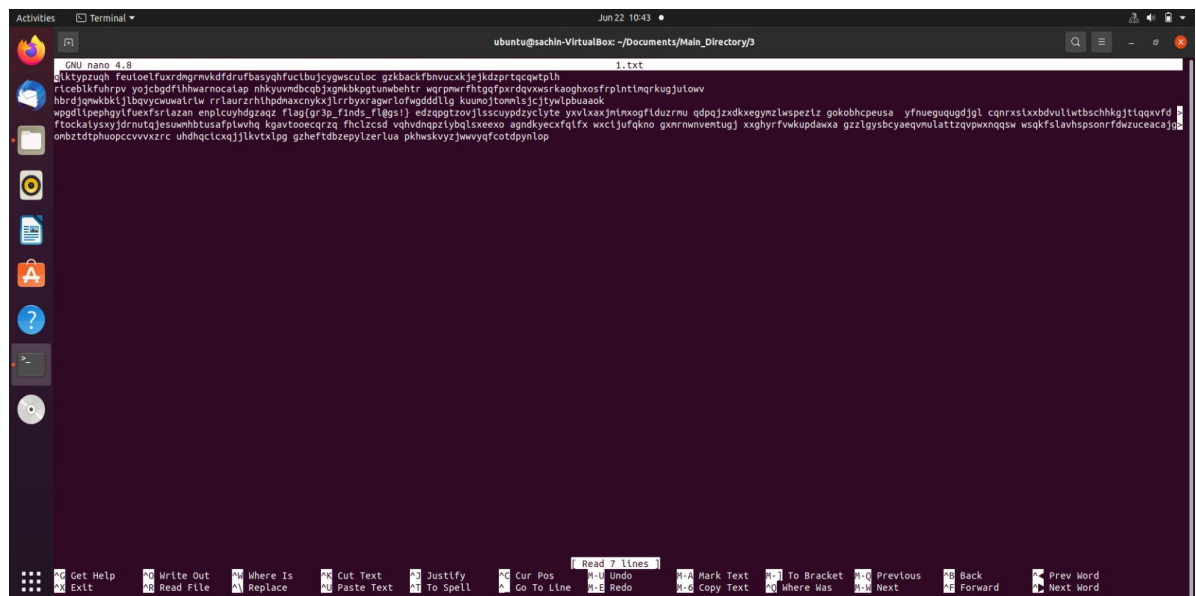
flag.txt.txt
```

2) FLAG-2: flag{gr3p_f1nds_fl@gsl}



A terminal window titled 'Terminal' with a subtitle 'ubuntu@sachin-VirtualBox: ~/Documents/Main_Directory/3'. The terminal shows the following commands and output:

```
ubuntu@sachin-VirtualBox:~/Documents$ cd Main_Directory
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ ls
1 3 4 5 flag(first_flag_h3r3)
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ cd 3
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3$ ls
1.txt 2.txt find_me
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3$ nano 1.txt
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3$
```



A terminal window titled 'Terminal' with a subtitle 'ubuntu@sachin-VirtualBox: ~/Documents/Main_Directory/3'. The terminal shows the contents of the file '1.txt' using the 'cat' command:

```
cat 1.txt
gltkypzugh feutoelfuxrdngrwkdfrufbasyqhfucibujcygusculoc gzkbackfbnvucvkjejdkzprtqcpwplh
ricebikfuhprv yojcbgdfllhwarncatp nhkyuvmdbcbjgmkbbpgtunwbehtp wqprmrfttgqfpxrdqvwskagohxosfrpntinqrkugjulow
hordjgmkbtjlbgyvcwawrlw rrlaurzrhthpdaacnyxjlrbyxragarlowgdddlg kuwojtomlscjtywlpbusaak
wgdglpaphygyfuexfartazan enpucyhdgzeac flag{gr3p_f1nds_fl@gsl} edeqpigtovjlsscupdeyclyte yvixakjnlxogfldazru adpajzdxkxegymzlspeziz gokobhpcpeusa yfneugqugdjgl cqnrxslxxbdvullwtbschhkgjtiqquvfd
ftockalysyjdrrutqjesumhbtusafplwvhq kgavtooeqqrz fhclzcsd vqhvndqpiybzqlsxexo agndkyecxfqlfx wxcljufqkno gxnrmnmventugj xxghyrfvkvupdawxa gzzlgysbcyaevmullattzqvpwxnqgs wsqkflavhspsonrfdwzuceacajob
onbztidphuopecvvvzrc uhdqhcicxqjjlkvtxlpg gzhftdbzepylerlua pkhwskvyzjwvyqfcotdpyllop
```

3) FLAG-3: flag{h1dden_fil3!}

```
Activities Terminal Jun 22 10:50 ubuntu@sachin-VirtualBox: ~/Documents/Main_Directory/3
ubuntu@sachin-VirtualBox:~/Documents$ cd Main_Directory
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ ls
1 3 4 5 flag(first_flag_h3r3)
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ cd 3
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3$ ls
1.txt 2.txt find_me
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3$ nano 1.txt
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3$ cd.
Command 'cd.' not found, did you mean:
command 'cde' from deb cde (0.1-gi1t-g551e54d-1.1build1)
command 'cdo' from deb cdo (1.9.0-rc1-1)
command 'cdw' from deb cdw (0.8.1-1build4)
command 'cdt' from deb cdt (1.9.0-rc1-1)
command 'cdb' from deb tinydb (0.7build1)
command 'cdp' from deb trpas (0.10-7)
command 'cds' from deb cds (0.1-4)
Try: sudo apt install <deb name>
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3$ cd..
cd.: command not found
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3$ cd ..
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ ls
1 3 4 5 flag(first_flag_h3r3)
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ cd 3
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3$ ls -a
. . 1.txt 2.txt find_me .flag.txt
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3$ nano .flag.txt
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3$
```

```
Activities Terminal Jun 22 10:51 ubuntu@sachin-VirtualBox: ~/Documents/Main_Directory/3
GNU nano 4.8 .flag.txt
flag{h1dden_fil3!}
```

Get Help Exit Write Out Read File Where Is Replace Cut Text Paste Text Justify To Spell Cur Pos Go To Line Read 1 line Undo Redo Mark Text Copy Text To Bracket Where Was Previous Next Back Forward Prev Word Next Word

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

```
command 'cdo' from deb cdo (1.9.9-rc1-1)
command 'cdw' from deb cdw (0.8.1-1build1)
command 'cdt' from deb cdt (1.9.9-rc1-1)
command 'cdb' from deb tinydb (0.78build1)
command 'cdp' from deb irpas (0.10-7)
command 'cds' from deb cds (0.1-4)

Try: sudo apt install <deb name>

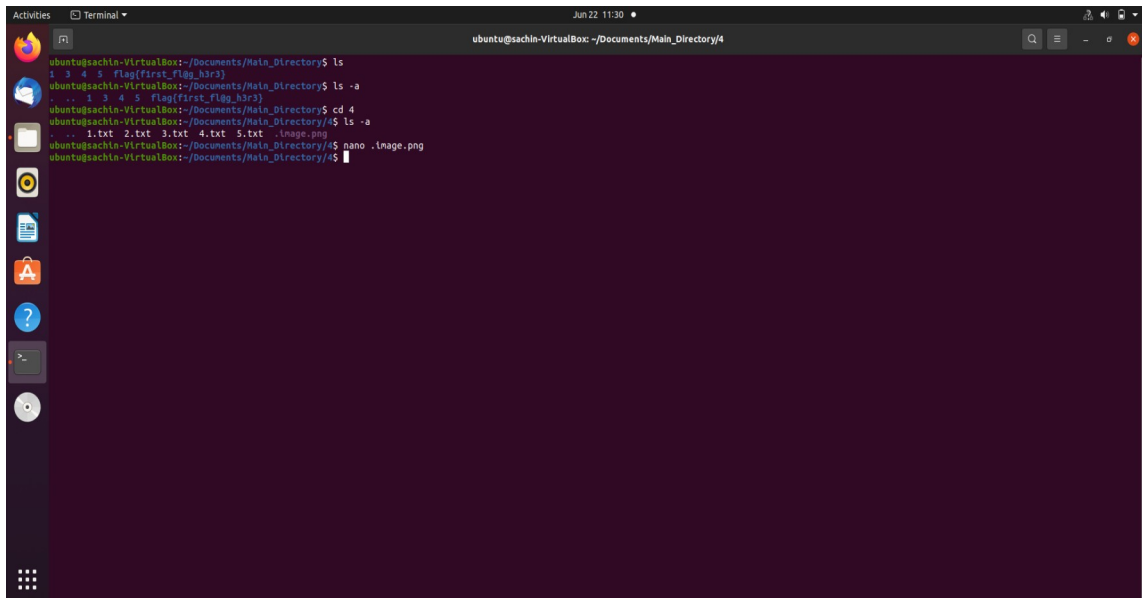
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/1$ cd..
cd..: command not found
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/1$ cd ..
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ ls
1 3 4 5 flag(first_flag_h3r3)
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ cd 3
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3$ ls -a
. . . 1.txt 2.txt find_me .flag.txt
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3$ nano .flag.txt
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3$ nano .flag.txt
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3$ ..
..: command not found
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/3$ cd ..
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ ls
1 3 4 5 flag(first_flag_h3r3)
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ cd 1
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/1$ ls
zipped_flag.zip
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/1$ unzip zipped_flag.zip
Archive:  zipped_flag.zip
  creating:  zipped_flag/
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
password incorrect--reenter:
password incorrect--reenter:
skipping:  zipped_flag/zipped_flag.txt  incorrect password
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/1$ unzip zipped_flag.zip
Archive:  zipped_flag.zip
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
extracting:  zipped_flag/zipped_flag.txt
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/1$ ls
zipped_flag  zipped_flag.zip
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/1$ cd zipped_flag
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/1/zipped_flag$ nano zipped_flag.txt
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/1/zipped_flag$
```

```
GNU nano 4.8                                zipped_flag.txt
flag{e@5y_p@ssw0rd!}
```


Get Help	Write Out	Where Is	Cut Text	Justify	Cur Pos	Undo	Mark Text	To Bracket	Previous	Back	Prev Word
Exit	Read File	Replace	Paste Text	To Spell	Go To Line	Redo	Copy Text	Where Was	Next	Forward	Next Word

5) FLAG-5:

flag{t3xt_15_n0t_h1dd3n!}



```
ubuntu@sachin-VirtualBox: ~/Documents/Main_Directory4
1 3 4 5 flag(first_flag_h3r3)
ubuntu@sachin-VirtualBox: ~/Documents/Main_Directory4$ ls -la
. . 1 3 4 5 flag(first_flag_h3r3)
ubuntu@sachin-VirtualBox: ~/Documents/Main_Directory4$ cd 4
ubuntu@sachin-VirtualBox: ~/Documents/Main_Directory4/4$ ls -la
. . 1.txt 2.txt 3.txt 4.txt 5.txt .lnage.png
ubuntu@sachin-VirtualBox: ~/Documents/Main_Directory4/4$ nano .lnage.png
ubuntu@sachin-VirtualBox: ~/Documents/Main_Directory4/4$
```

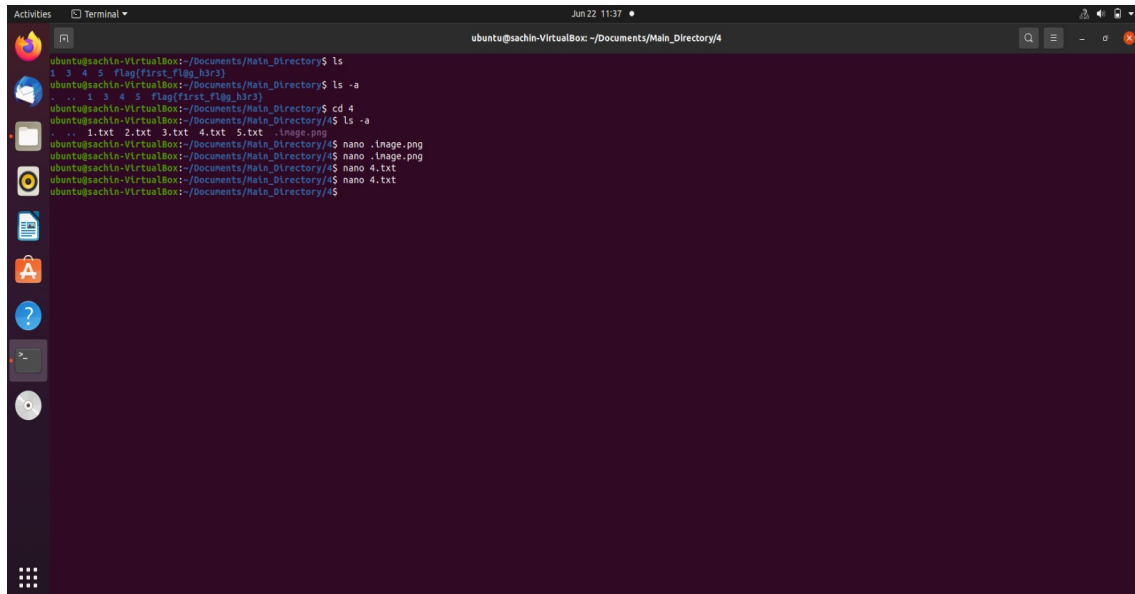


```
GNU nano 4.8 .lnage.png
flag{t3xt_15_n0t_h1dd3n!}
```

Get Help Exit Write Out Read File Where Is Replace Cut Text Paste Text Justify To Spell Cur Pos Go To Line Undo Redo Mark Text Copy Text To Bracket Where Was Previous Next Back Forward Prev Word Next Word

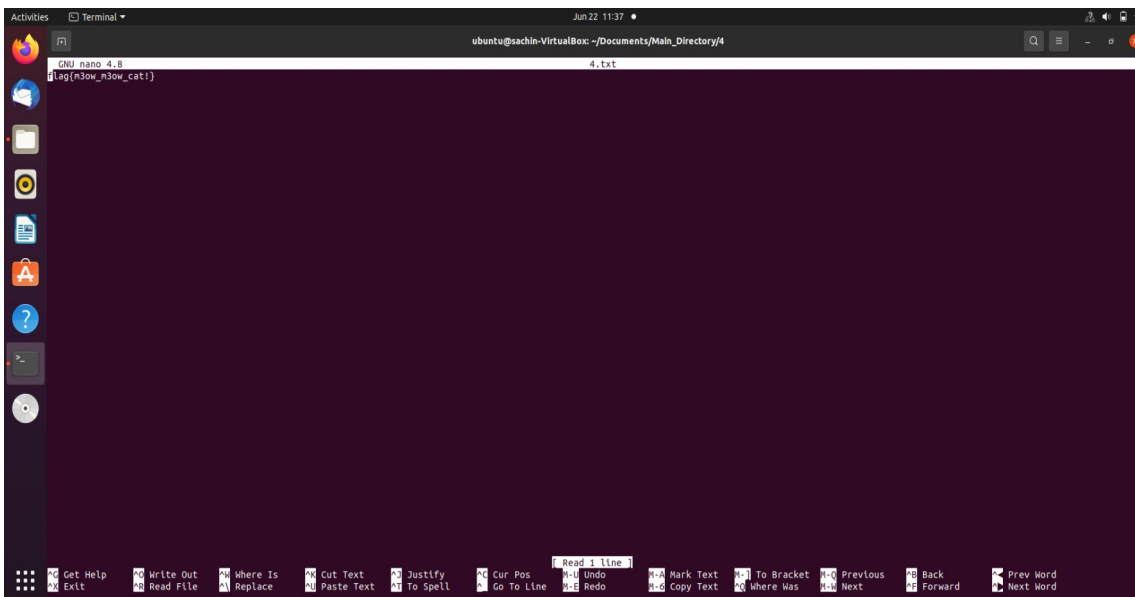
6) **FLAG-6:**

flag{m3ow_m3ow_cat!}



A terminal window titled 'ubuntu@sachin-VirtualBox: ~/Documents/Main_Directory/4' showing a series of commands and their outputs. The user lists files in the current directory, then creates a directory named '4', moves into it, and lists its contents. The files listed are 1.txt, 2.txt, 3.txt, 4.txt, 5.txt, and .image.png. The user then uses the 'nano' editor to create and edit these files.

```
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ ls
1 3 4 5 Flag(first_flg_h3r3)
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ ls -a
. . 1 3 4 5 Flag(first_flg_h3r3)
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ cd 4
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/4$ ls -a
. . 1.txt 2.txt 3.txt 4.txt 5.txt .image.png
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/4$ nano .image.png
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/4$ nano .image.png
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/4$ nano 4.txt
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/4$ nano 4.txt
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/4$
```

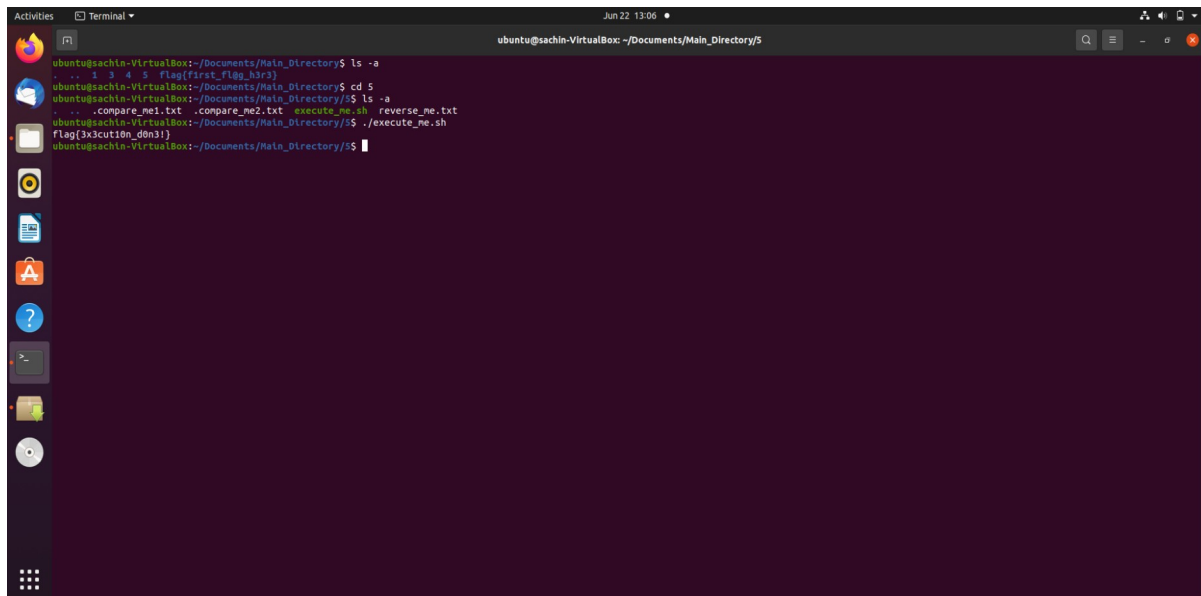


A terminal window showing the 'nano' text editor editing the file '4.txt'. The editor title bar indicates 'GNU nano 4.8' and '4.txt'. The content of the file is 'flag{m3ow_m3ow_cat!}'. The bottom of the window shows a standard nano editor command palette with various shortcuts like 'Ctrl+H' for help, 'Ctrl+W' for write out, etc.

```
GNU nano 4.8
4.txt
flag{m3ow_m3ow_cat!}
```

7) FLAG-7:

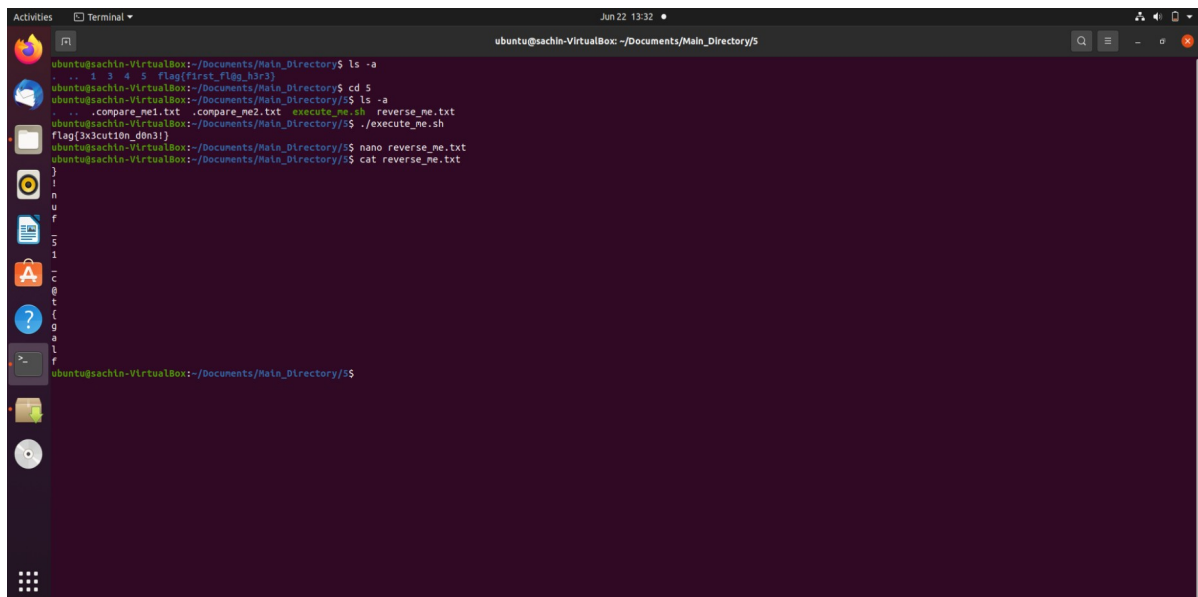
flag{3x3cut10n_d0n3!}

A terminal window titled 'Terminal' showing a series of commands and their outputs. The user is in a directory ~/Documents/Main_Directory/5. The commands and outputs are: 'ls -a' showing hidden files; 'cd 5' changing to the subdirectory; 'ls -a' showing files including compare_me1.txt, compare_me2.txt, execute_me.sh, and reverse_me.txt; '.execute_me.sh' running a script that prints the flag 'flag{3x3cut10n_d0n3!}'.

```
ubuntu@sachin-VirtualBox: ~/Documents/Main_Directory/5
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ ls -a
.  ..  1  3  4  5  flag(first_flag_h3r3)
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ cd 5
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/5$ ls -a
.  ..  .compare_me1.txt  .compare_me2.txt  .execute_me.sh  .reverse_me.txt
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/5$ .execute_me.sh
flag{3x3cut10n_d0n3!}
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/5$
```

8) FLAG-8:

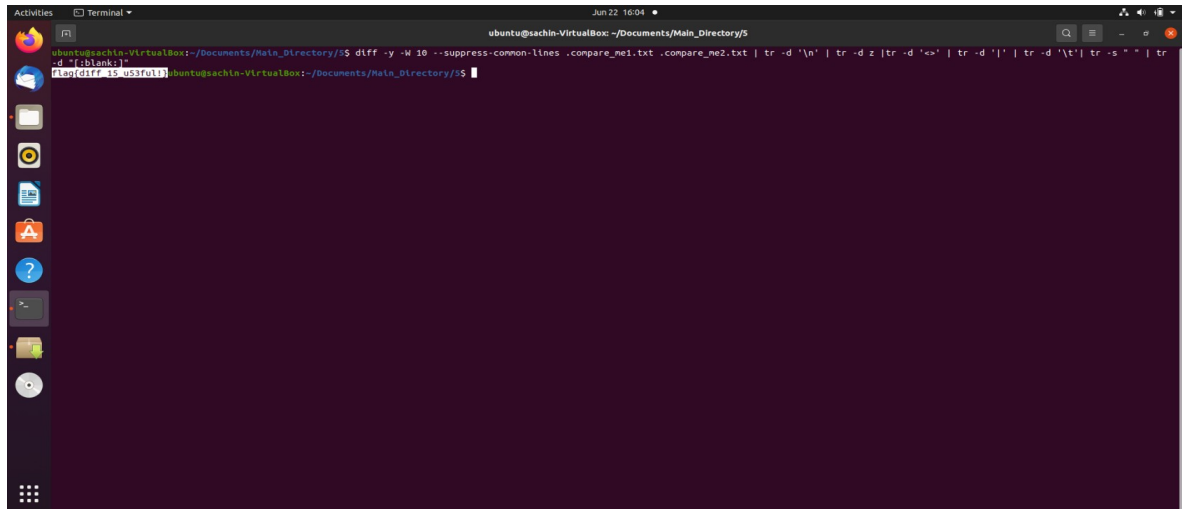
flag{t@c_15_fun!}

A terminal window titled 'Terminal' showing a series of commands and their outputs. The user is in a directory ~/Documents/Main_Directory/5. The commands and outputs are: 'ls -a' showing hidden files; 'cd 5' changing to the subdirectory; 'ls -a' showing files including compare_me1.txt, compare_me2.txt, execute_me.sh, and reverse_me.txt; '.execute_me.sh' running a script that prints the flag 'flag{3x3cut10n_d0n3!}'; 'nano reverse_me.txt' opening a text editor; 'cat reverse_me.txt' displaying the contents of the file, which is 't@c_15_fun!'.

```
ubuntu@sachin-VirtualBox: ~/Documents/Main_Directory/5
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ ls -a
.  ..  1  3  4  5  flag(first_flag_h3r3)
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ cd 5
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/5$ ls -a
.  ..  .compare_me1.txt  .compare_me2.txt  .execute_me.sh  .reverse_me.txt
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/5$ .execute_me.sh
flag{3x3cut10n_d0n3!}
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/5$ nano reverse_me.txt
}
l
n
u
f
c
_
1
-
c
@
t
{
g
a
l
f
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/5$ cat reverse_me.txt
t@c_15_fun!
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/5$
```

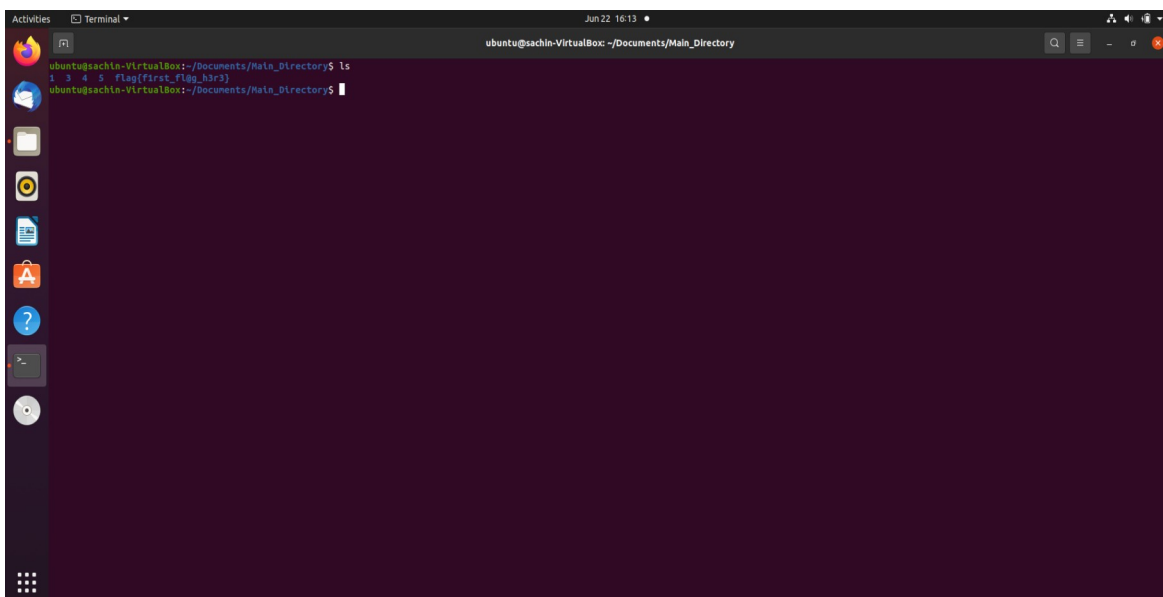

9) **FLAG-9 :**

flag{d1ff_15_u53ful!}



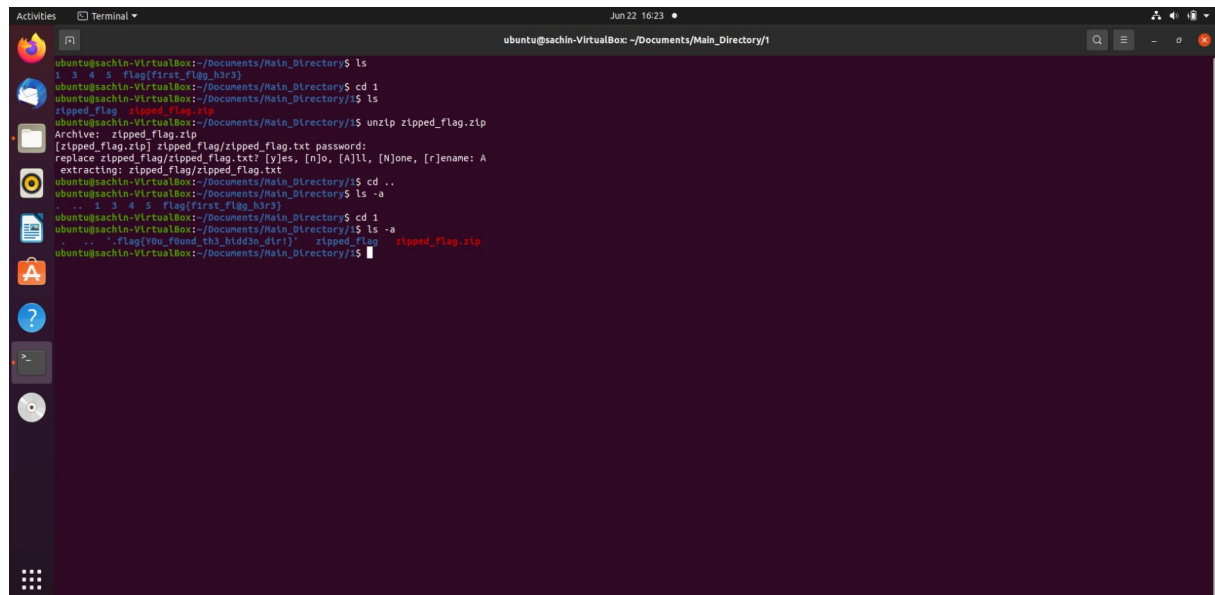
10) **FLAG-10:**

flag{f1rst_fl@g_h3r3}



11) FLAG-11:

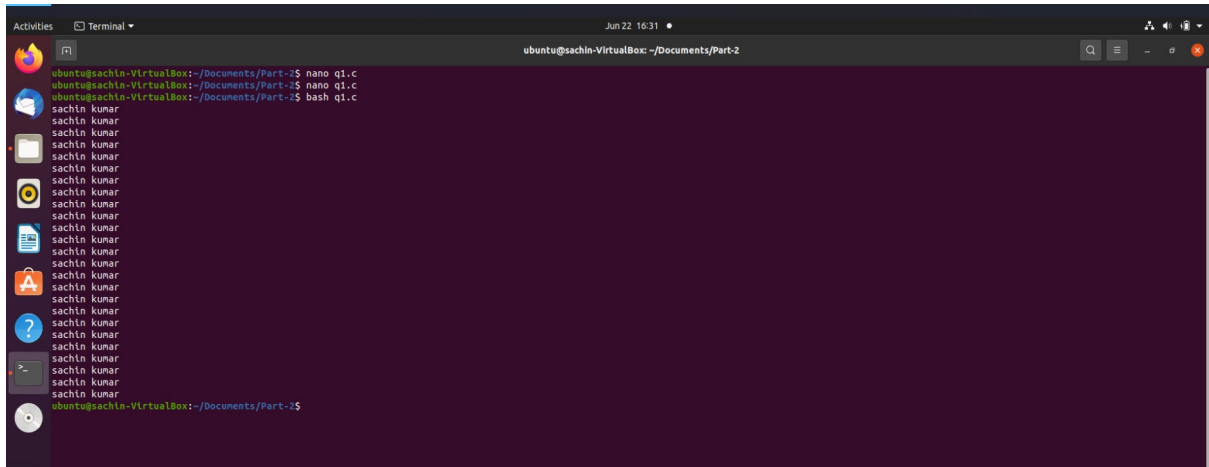
flag{Y0u_f0und_th3_hidd3n_dir!}



```
Activities Terminal Jun 22 16:23
ubuntu@sachin-VirtualBox: ~/Documents/Main_Directory/1
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ ls
1  2  4  5  flag(first_flag_h3r3)
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ cd 1
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/1$ ls
zipped_flag  zipped_flag.zip
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/1$ unzip zipped_flag.zip
Archive:  zipped_flag.zip
  zipped_flag.zip  zipped_flag/zipped_flag.txt password:
replace zipped_flag/zipped_flag.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: A
extracting: zipped_flag/zipped_flag.txt
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/1$ cd ..
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ ls -la
.  ..  1  2  4  5  flag(first_flag_h3r3)
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory$ cd 1
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/1$ ls -la
.  ..  '.flag{Y0u_f0und_th3_hidd3n_dir!}'  zipped_flag  zipped_flag.zip
ubuntu@sachin-VirtualBox:~/Documents/Main_Directory/1$
```

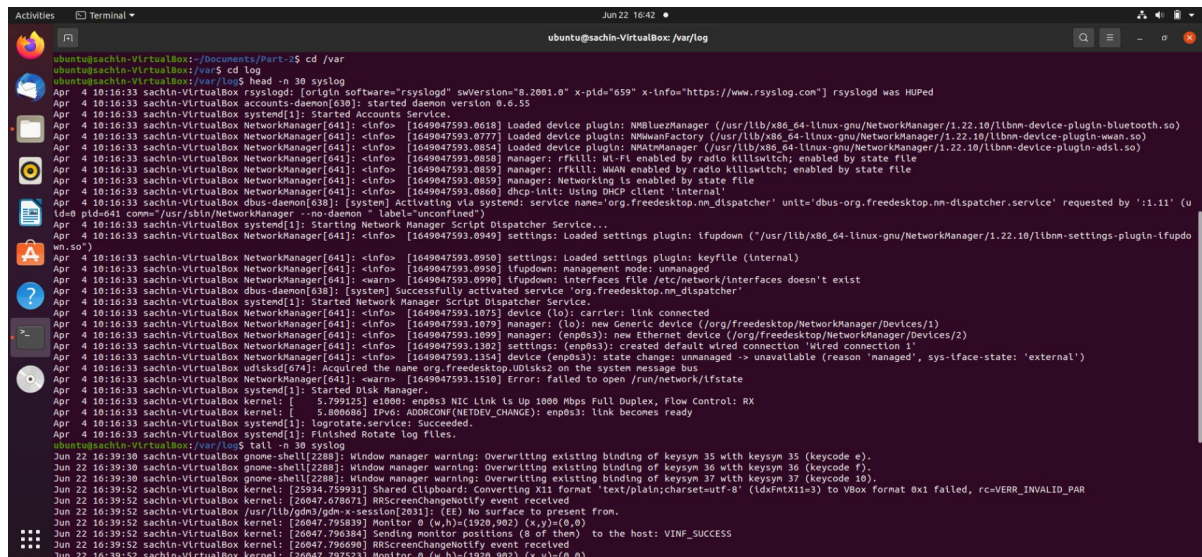
PART – 2:

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



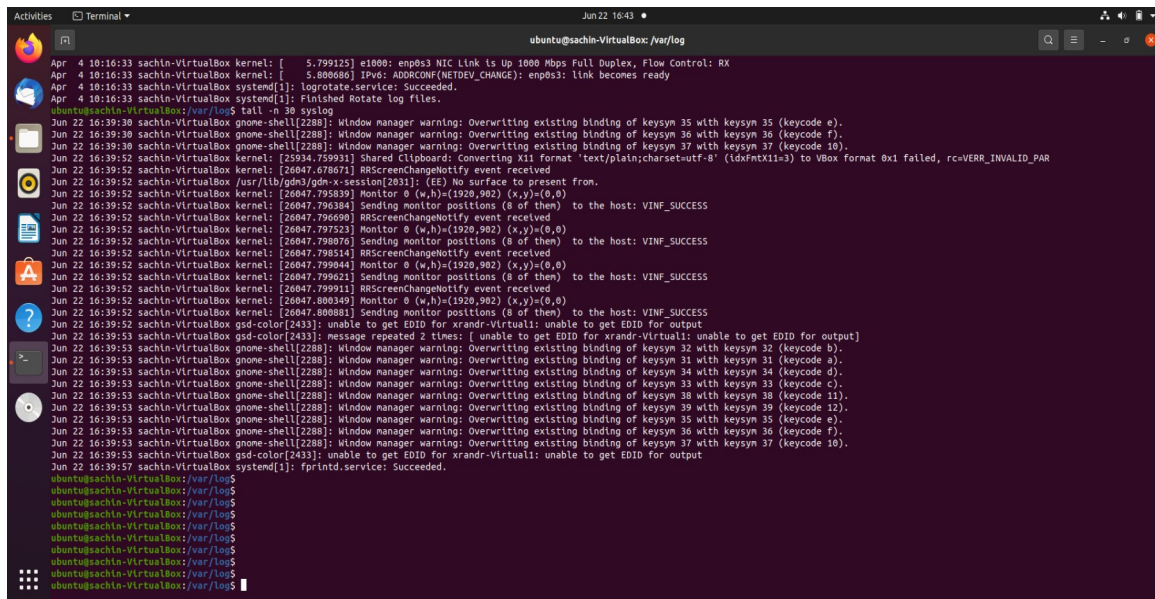
```
Jun 22 16:31
ubuntu@sachin-VirtualBox: ~/Documents/Part-2
ubuntu@sachin-VirtualBox:~/Documents/Part-2$ nano q1.c
ubuntu@sachin-VirtualBox:~/Documents/Part-2$ nano q1.c
ubuntu@sachin-VirtualBox:~/Documents/Part-2$ bash q1.c
sachin kumar
sachin kumar
sachin kumar
sachin kumar
sachin kumar
sachin kumar
sachin kumar
sachin kumar
sachin kumar
sachin kumar
sachin kumar
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sachin kumar
ubuntu@sachin-VirtualBox:~/Documents/Part-2$
```

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



```
Jun 22 16:42
ubuntu@sachin-VirtualBox: /var/log
ubuntu@sachin-VirtualBox:~/var/log$ cd /var
ubuntu@sachin-VirtualBox:~/var$ cd log
ubuntu@sachin-VirtualBox:~/var/log$ head -n 30 syslog
Apr  4 10:16:33 sachin-VirtualBox rsyslogd: [origin software="rsyslogd" swVersion="8.2001.0" x-pid="659" x-info="https://www.rsyslog.com"] rsyslogd was HUPed
Apr  4 10:16:33 sachin-VirtualBox accounts-daemon[638]: started daemon version 0.6.55
Apr  4 10:16:33 sachin-VirtualBox systemd[1]: Started Accounts Service.
Apr  4 10:16:33 sachin-VirtualBox NetworkManager[641]: <info> [1649047593.0610] Loaded device plugin: NMBlueZManager (/usr/lib/x86_64-linux-gnu/NetworkManager/1.22.10/libnm-device-plugin-bluetooth.so)
Apr  4 10:16:33 sachin-VirtualBox NetworkManager[641]: <info> [1649047593.0777] Loaded device plugin: NMWwanFactory (/usr/lib/x86_64-linux-gnu/NetworkManager/1.22.10/libnm-device-plugin-wwan.so)
Apr  4 10:16:33 sachin-VirtualBox NetworkManager[641]: <info> [1649047593.0854] Loaded device plugin: NMAtmManager (/usr/lib/x86_64-linux-gnu/NetworkManager/1.22.10/libnm-device-plugin-adsl.so)
Apr  4 10:16:33 sachin-VirtualBox NetworkManager[641]: <info> [1649047593.0858] manager: rfkill: Wi-Fi enabled by radio killswitch; enabled by state file
Apr  4 10:16:33 sachin-VirtualBox NetworkManager[641]: <info> [1649047593.0859] manager: rfkill: WWAN enabled by radio killswitch; enabled by state file
Apr  4 10:16:33 sachin-VirtualBox NetworkManager[641]: <info> [1649047593.0859] manager: Networking is enabled by state file
Apr  4 10:16:33 sachin-VirtualBox NetworkManager[641]: <info> [1649047593.0860] dhcp-unit: Using DHCP client: 'internal'
Apr  4 10:16:33 sachin-VirtualBox dbus-daemon[638]: [system] Activating via systemd: service name='org.freedesktop.nm_dispatcher' unit='dbus-org.freedesktop.nm_dispatcher.service' requested by ':1.11' (uid=0 pid=641 comm="/usr/sbin/NetworkManager --no-daemon")
Apr  4 10:16:33 sachin-VirtualBox systemd[1]: Starting Network Manager Script Dispatcher Service...
Apr  4 10:16:33 sachin-VirtualBox NetworkManager[641]: <info> [1649047593.0940] settings: Loaded settings plugin: ifupdown ("/usr/lib/x86_64-linux-gnu/NetworkManager/1.22.10/libnm-settings-plugin-ifupdown.so")
Apr  4 10:16:33 sachin-VirtualBox NetworkManager[641]: <info> [1649047593.0950] settings: Loaded settings plugin: keyfile (internal)
Apr  4 10:16:33 sachin-VirtualBox NetworkManager[641]: <info> [1649047593.0950] ifupdown: management mode: unmanaged
Apr  4 10:16:33 sachin-VirtualBox NetworkManager[641]: <warn> [1649047593.0990] ifupdown: interfaces file /etc/network/interfaces doesn't exist
Apr  4 10:16:33 sachin-VirtualBox systemd[1]: Started Network Manager Script Dispatcher Service.
Apr  4 10:16:33 sachin-VirtualBox NetworkManager[641]: <info> [1649047593.1075] device (lo): carrier: link connected
Apr  4 10:16:33 sachin-VirtualBox NetworkManager[641]: <info> [1649047593.1079] manager: (lo): new Generic device (/org/freedesktop/NetworkManager/Devices/1)
Apr  4 10:16:33 sachin-VirtualBox NetworkManager[641]: <info> [1649047593.1099] manager: (enp0s3): new Ethernet device (/org/freedesktop/NetworkManager/Devices/2)
Apr  4 10:16:33 sachin-VirtualBox NetworkManager[641]: <info> [1649047593.1302] settings: (enp0s3): created default wired connection 'Wired connection 1'
Apr  4 10:16:33 sachin-VirtualBox NetworkManager[641]: <info> [1649047593.1354] device (enp0s3): state change: unmanaged -> unavailable (reason 'managed', sys-facet-state: 'external')
Apr  4 10:16:33 sachin-VirtualBox udisksd[674]: Acquired the name org.freedesktop.UDisks2 on the system message bus
Apr  4 10:16:33 sachin-VirtualBox NetworkManager[641]: <warn> [1649047593.1510] Error: failed to open /run/network/1/stsate
Apr  4 10:16:33 sachin-VirtualBox systemd[1]: Started Disk Manager.
Apr  4 10:16:33 sachin-VirtualBox kernel: [ 5.799125] e1000: enp0s3 NIC Link is Up 1000 Mbps Full Duplex, Flow Control: RX
Apr  4 10:16:33 sachin-VirtualBox kernel: [ 5.800860] IPv6: ADDRCONF(NETDEV_CHANGE): enp0s3: link becomes ready
Apr  4 10:16:33 sachin-VirtualBox systemd[1]: logrotate.service: Succeeded.
Apr  4 10:16:33 sachin-VirtualBox systemd[1]: Finished Rotate log files.
ubuntu@sachin-VirtualBox:~/var/log$ tail -n 30 syslog
Jun 22 16:39:30 sachin-VirtualBox gnome-shell[2288]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode e).
Jun 22 16:39:30 sachin-VirtualBox gnome-shell[2288]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode f).
Jun 22 16:39:30 sachin-VirtualBox gnome-shell[2288]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode io).
Jun 22 16:39:52 sachin-VirtualBox kernel: [25934.759931] Shared Clipboard: Converting X11 format 'text/plain;charset=utf-8' (idxFmtX11=3) to VBox format 0x1 failed, rc=VERR_INVALID_PAF
Jun 22 16:39:52 sachin-VirtualBox kernel: [26047.678071] RRSscreenChangeNotify event received
Jun 22 16:39:52 sachin-VirtualBox /usr/lib/gdm3/gdm-x-session[2031]: (EE) No surface to present from:
Jun 22 16:39:52 sachin-VirtualBox kernel: [26047.795839] Monitor 0 (w,h)=(1920,962) (x,y)=(0,0)
Jun 22 16:39:52 sachin-VirtualBox kernel: [26047.796384] Sending monitor positions (8 of them) to the host: VINF_SUCCESS
Jun 22 16:39:52 sachin-VirtualBox kernel: [26047.796690] RRSscreenChangeNotify event received
Jun 22 16:39:52 sachin-VirtualBox kernel: [26047.797523] Monitor 0 (w,h)=(1920,962) (x,y)=(0,0)
```

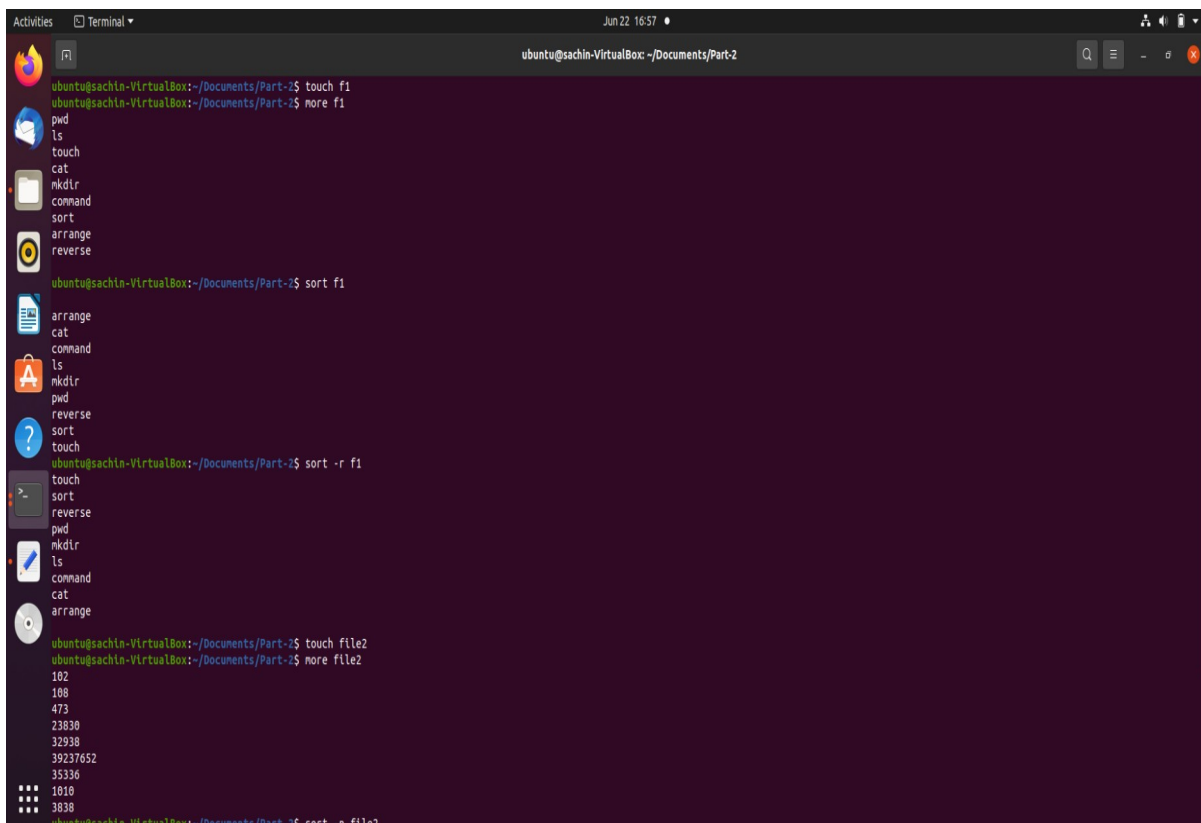
3) What command should I use to display the **last** 30 entries of syslog file?



```
ubuntu@sachin-VirtualBox: /var/log
Jun 22 16:43
Apr  4 10:16:33 sachin-VirtualBox kernel: [ 5.799125] e1000: enp0s3 NIC Link is Up 1000 Mbps Full Duplex, Flow Control: RX
Apr  4 10:16:33 sachin-VirtualBox kernel: [ 5.800686] IPv6: ADDRCONF(NETDEV_CHANGE): enp0s3: link becomes ready
Apr  4 10:16:33 sachin-VirtualBox systemd[1]: logrotate.service: Succeeded.
Apr  4 10:16:33 sachin-VirtualBox systemd[1]: Finished Rotate log files.
ubuntu@sachin-VirtualBox: /var/log$ tail -n 30 syslog
Jun 22 16:39:30 sachin-VirtualBox gnome-shell[2288]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode e).
Jun 22 16:39:30 sachin-VirtualBox gnome-shell[2288]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode f).
Jun 22 16:39:30 sachin-VirtualBox gnome-shell[2288]: Window manager warning: Overwriting existing binding of keysym 37 with keysym 37 (keycode 10).
Jun 22 16:39:32 sachin-VirtualBox kernel: [25934.759311] shared Clipboard: Converting X11 Format 'text/plain;charset=utf-8' (id=fnk11=3) to VBox format 0x1 failed, rc=VERR_INVALID_PAR
Jun 22 16:39:52 sachin-VirtualBox kernel: [26047.678671] RRScreenChangeNotify event received
Jun 22 16:39:52 sachin-VirtualBox /usr/lib/gdm3/gdm-x-session[2031]: (EE) No surface to present from.
Jun 22 16:39:52 sachin-VirtualBox kernel: [26047.793838] Monitor 0 (w,h)=(1920,982) (x,y)=(0,0)
Jun 22 16:39:52 sachin-VirtualBox kernel: [26047.796384] Sending monitor positions (0 of them) to the host: VINF_SUCCESS
Jun 22 16:39:52 sachin-VirtualBox kernel: [26047.796690] RRScreenChangeNotify event received
Jun 22 16:39:52 sachin-VirtualBox kernel: [26047.797523] Monitor 0 (w,h)=(1920,982) (x,y)=(0,0)
Jun 22 16:39:52 sachin-VirtualBox kernel: [26047.798076] Sending monitor positions (0 of them) to the host: VINF_SUCCESS
Jun 22 16:39:52 sachin-VirtualBox kernel: [26047.798514] RRScreenChangeNotify event received
Jun 22 16:39:52 sachin-VirtualBox kernel: [26047.799044] Monitor 0 (w,h)=(1920,982) (x,y)=(0,0)
Jun 22 16:39:52 sachin-VirtualBox kernel: [26047.799621] Sending monitor positions (0 of them) to the host: VINF_SUCCESS
Jun 22 16:39:52 sachin-VirtualBox kernel: [26047.799911] RRScreenChangeNotify event received
Jun 22 16:39:52 sachin-VirtualBox kernel: [26047.800349] Monitor 0 (w,h)=(1920,982) (x,y)=(0,0)
Jun 22 16:39:52 sachin-VirtualBox kernel: [26047.800881] Sending monitor positions (0 of them) to the host: VINF_SUCCESS
Jun 22 16:39:52 sachin-VirtualBox gsd-color[2433]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Jun 22 16:39:53 sachin-VirtualBox gsd-color[2433]: message repeated 2 times: [ unable to get EDID for xrandr-Virtual1: unable to get EDID for output]
Jun 22 16:39:53 sachin-VirtualBox gnome-shell[2288]: Window manager warning: Overwriting existing binding of keysym 32 with keysym 32 (keycode b).
Jun 22 16:39:53 sachin-VirtualBox gnome-shell[2288]: Window manager warning: Overwriting existing binding of keysym 31 with keysym 31 (keycode a).
Jun 22 16:39:53 sachin-VirtualBox gnome-shell[2288]: Window manager warning: Overwriting existing binding of keysym 34 with keysym 34 (keycode d).
Jun 22 16:39:53 sachin-VirtualBox gnome-shell[2288]: Window manager warning: Overwriting existing binding of keysym 33 with keysym 33 (keycode c).
Jun 22 16:39:53 sachin-VirtualBox gnome-shell[2288]: Window manager warning: Overwriting existing binding of keysym 38 with keysym 38 (keycode 11).
Jun 22 16:39:53 sachin-VirtualBox gnome-shell[2288]: Window manager warning: Overwriting existing binding of keysym 39 with keysym 39 (keycode 12).
Jun 22 16:39:53 sachin-VirtualBox gnome-shell[2288]: Window manager warning: Overwriting existing binding of keysym 35 with keysym 35 (keycode e).
Jun 22 16:39:53 sachin-VirtualBox gnome-shell[2288]: Window manager warning: Overwriting existing binding of keysym 36 with keysym 36 (keycode f).
Jun 22 16:39:53 sachin-VirtualBox gsd-color[2433]: unable to get EDID for xrandr-Virtual1: unable to get EDID for output
Jun 22 16:39:57 sachin-VirtualBox systemd[1]: rprintd.service: Succeeded.
ubuntu@sachin-VirtualBox: /var/log$
ubuntu@sachin-VirtualBox: /var/log$
ubuntu@sachin-VirtualBox: /var/log$
ubuntu@sachin-VirtualBox: /var/log$
ubuntu@sachin-VirtualBox: /var/log$
ubuntu@sachin-VirtualBox: /var/log$
ubuntu@sachin-VirtualBox: /var/log$
ubuntu@sachin-VirtualBox: /var/log$
ubuntu@sachin-VirtualBox: /var/log$
ubuntu@sachin-VirtualBox: /var/log$
```

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

- Alphabetically
- Reverse order
- Numerical order



```
ubuntu@sachin-VirtualBox: ~/Documents/Part-2
Jun 22 16:57
ubuntu@sachin-VirtualBox: ~/Documents/Part-2$ touch f1
ubuntu@sachin-VirtualBox: ~/Documents/Part-2$ more f1
pwd
ls
touch
cat
mkdir
command
sort
reverse
ubuntu@sachin-VirtualBox: ~/Documents/Part-2$ sort f1
arrange
cat
command
ls
mkdir
pwd
reverse
sort
touch
ubuntu@sachin-VirtualBox: ~/Documents/Part-2$ sort -r f1
touch
sort
reverse
pwd
mkdir
ls
command
cat
arrange
ubuntu@sachin-VirtualBox: ~/Documents/Part-2$ touch file2
ubuntu@sachin-VirtualBox: ~/Documents/Part-2$ more file2
102
106
473
23838
32938
39237652
35336
1010
3838
ubuntu@sachin-VirtualBox: ~/Documents/Part-2$ sort -n file2
```

```
3838
ubuntu@sachin-VirtualBox:~/Documents/Part-2$ sort -n file2
102
108
473
1010
3838
23830
32938
35336
39237652
ubuntu@sachin-VirtualBox:~/Documents/Part-2$
```

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?

```
Activities Terminal Jun 22 17:06
ubuntu@sachin-VirtualBox: ~/Documents/Part-2
ubuntu@sachin-VirtualBox:~/Documents/Part-2$ touch duplicate
ubuntu@sachin-VirtualBox:~/Documents/Part-2$ more duplicate
mobile
laptop
javapoint
waterbottle
laptop
chair
remote
table
chair
table
ubuntu@sachin-VirtualBox:~/Documents/Part-2$ sort duplicate | uniq -u
javapoint
mobile
remote
waterbottle
ubuntu@sachin-VirtualBox:~/Documents/Part-2$
```

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

The permissions of a file are the first line of defense in the security of a Unix system. The basic building blocks of Unix permissions are the read, write, and execute permissions, which have been described below –

Read

Grants the capability to read, i.e., view the contents of the file.

Write

Grants the capability to modify, or remove the content of the file.

Execute

User with execute permissions can run a file as a program.