



# AMRITA

## VISHWA VIDYAPEETHAM

### COGNIZANCE CLUB

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### TASK-5

#### PART 1

Unzipped the file using

```
savya@savya-VirtualBox:~$ pwd
/home/savya
savya@savya-VirtualBox:~$ cd Downloads
savya@savya-VirtualBox:~/Downloads$ ls
Task.tar.gz
savya@savya-VirtualBox:~/Downloads$ tar -x -f Task.tar.gz
savya@savya-VirtualBox:~/Downloads$ ls
Main_Directory Task.tar.gz
savya@savya-VirtualBox:~/Downloads$
```

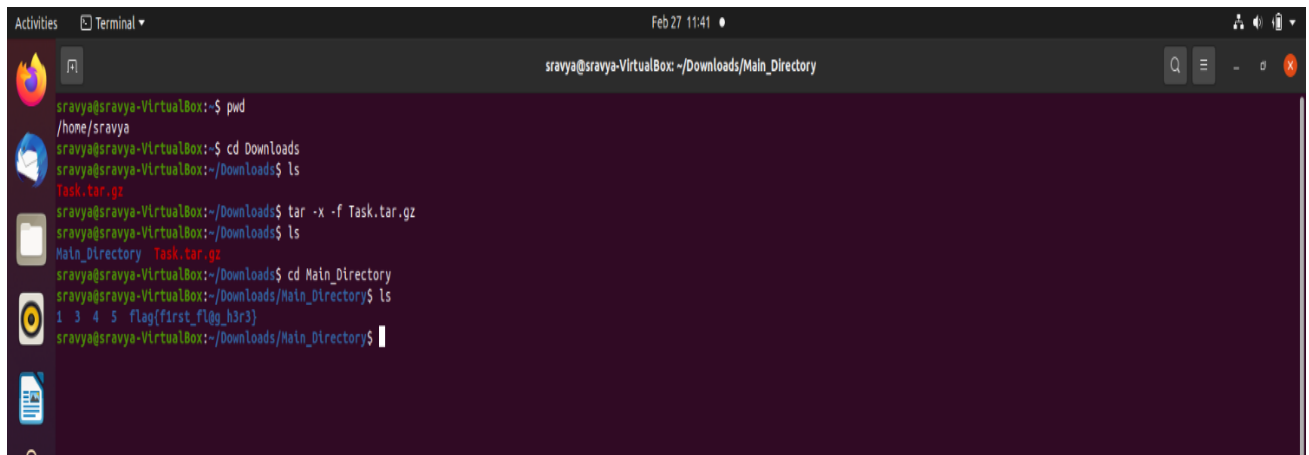
Number of flags found 11

The flags are as follows:-

1. flag{f1rst\_fl@g\_h3r3}
2. flag{gr3p\_f1nds\_fl@gs!}
3. flag{Y0u\_f0und\_m3!}
4. flag{e@5y\_p@ssw0rd!}
5. flag{Y0u\_f0und\_th3\_hidd3n\_dir!}
6. flag{h1dden\_fil3!}
7. flag{t3xt\_15\_n0t\_h1dd3n!}
8. flag{3x3cut10n\_d0n3!}
9. flag{t@c\_15\_fun!}
10. flag{m3ow\_m3ow\_cat!}
11. flag{d1ff\_c0mm@nd15\_u53ful!}

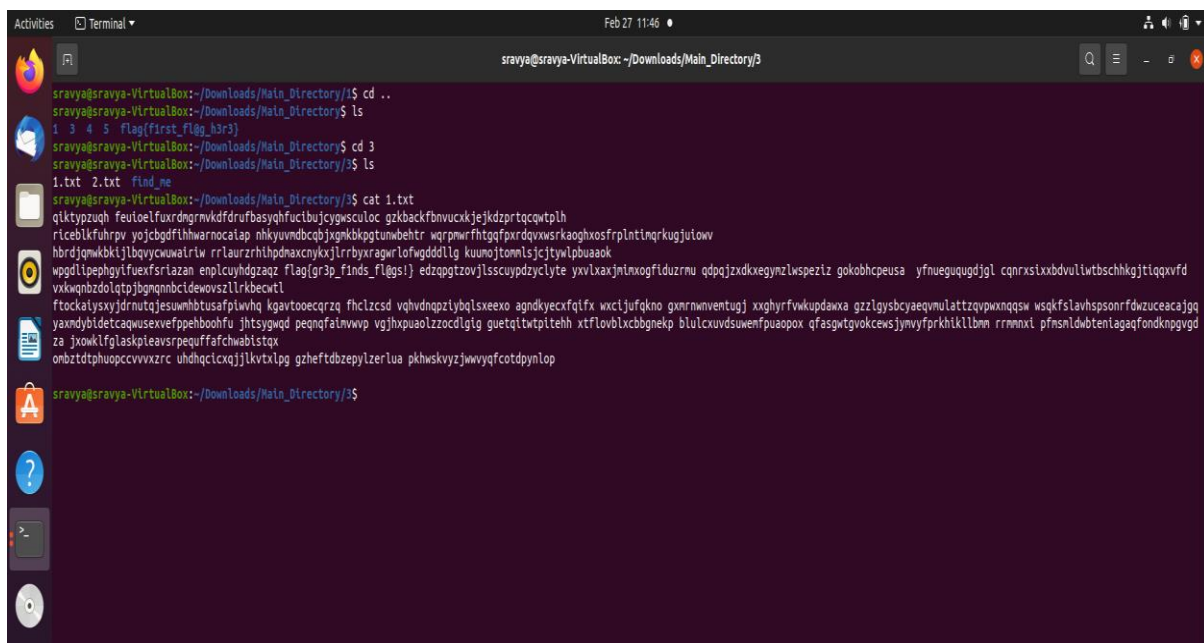
The screenshots of the flags are provided below:-

## 1.Flag 1 flag{flrst\_fl@g\_h3r3}



```
sravya@sravya-VirtualBox:~$ pwd
/home/sravya
sravya@sravya-VirtualBox:~$ cd Downloads
sravya@sravya-VirtualBox:~/Downloads$ ls
Task.tar.gz
sravya@sravya-VirtualBox:~/Downloads$ tar -x -f Task.tar.gz
sravya@sravya-VirtualBox:~/Downloads$ ls
Main_Directory Task.tar.gz
sravya@sravya-VirtualBox:~/Downloads$ cd Main_Directory
sravya@sravya-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{flrst_fl@g_h3r3}
sravya@sravya-VirtualBox:~/Downloads/Main_Directory$
```

## 2.FLAG2 flag{gr3p\_f1nds\_fl@gs!}



```
sravya@sravya-VirtualBox:~/Downloads/Main_Directory/3$ cd ..
sravya@sravya-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{flrst_fl@g_h3r3}
sravya@sravya-VirtualBox:~/Downloads/Main_Directory$ cd 3
sravya@sravya-VirtualBox:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_ne
sravya@sravya-VirtualBox:~/Downloads/Main_Directory/3$ cat 1.txt
qiktypzugh feuloelfuxrdngrmvdfrufbasqhfuctbuycyqwsuloc gzkbackfhnvucckjejdkzprtqcqwtplh
ricebklfuhprv yojcbgdflhwarnocalap nhkyuvmdbcbqjxgmbkpgtunbeht qwrpmwrfhtgfpkrdqvwskagohxosfrplntinqrkugjuilow
hbrdjqmkbkijlbqvcyuawairw rrlaurzhthpdmxcnyxjlrrbykragwlofwgddllg kumo]tomnlsjctywlpbuaaok
wgdlipephgyifuexfsriazan enlcyuhdzaaz flag{gr3p_f1nds_fl@gs!} edzqpgtzovjlsscuydpdzcylyte yv]xaxjnmogfiduzrnu qdpqjzdxegyn]wspeziz gokobhceusa yfnueguqugdjgl cqnrxslxbdvulwtbschhkgjtiquxvfd
xxwqnbzdo]atpjhgnqmbcidewoszlrrkbecwtl
ftocaklyxyjdrnutqjesumhbtusafplwhq kgavtoecarzg fhclacsd vghvdnqzlybqlsxexo agndkyecxfafx wcljufqkno gxmnmwventugj xghyrfwvkupdawxa gzzlgysbcbayeevmulattizqvwkxqgw wsgkflavhspsonrfdwzuceacajg
yaxm]bidetcaquxsewefpfehboohfu jhtsygwd peqnfalmwvp vgjhxpuolzocdlgig guetqitwtpitehh xflvoblxcbgnekp blulcxvudsuenfpuapox qfasgtgwokcewsjymvfyprkhikllbmn rrrmmxl pfnslndbnteniagaqfondknpvgvd
za jxowklfglaskpleavsrpequffafchwabistqx
ombztdtphuopccvwxzrc uhdhqcicxqjjlkvtxlpq gzheftdbzepylerlua pkhswkyvzjwvwyqfcotdpylnop
sravya@sravya-VirtualBox:~/Downloads/Main_Directory/3$
```

### 3. FLAG3 flag{Y0u\_f0und\_m3!}

The image shows a terminal window titled "Activities Terminal" with a dark background. The prompt is `sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/Find_me/1/2/3/4/5/6/7/8`. The user enters a series of commands to explore the directory structure and find a flag.

```
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3$ cd 3
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/3$ ls
1.txt 2.txt find_me
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/3$ cat 1.txt
qkitypzuqh feutoelfuxdngrmkdfdrufbasqghfucbuycjgwsuloc gzkbackfbnvuckjejkdzprtcqwtplh
rtceblkfuhrrp yojcbgdfllhwarncatp nhkyuvmdbqbjxgmkbpgtumbeht wrqpmrfhtgqfxrdqvxwskagohxosfrlntlnqrkgujulow
hbrdjqmkbkijjibqyycuwakrlw rrlaurzrhlpdmaxncyxjrlrrykragwrlfowgddllg kuunojtomlscjtylpbuaaok
wgdglpephgyfuexfsrtazen enpLcuyldgzaq: flag{gr3p_finds_flag8!} edqzqgtovjlsscuydpdzcylyte yxvlxaxjnlxogfiduzrnu qdpqzidxkegynzlspeziz gokobhepsa yfneugueqdgjld cqnrxsxxbduvlwtbschhkgjtliqqxvd
vawemodolatzjgpmkdeidewysalibkaczi
ftocaklyssydrnrltesumbtasrflpwng kgavtoocorczq fhclzcd vohndnqzlyblsxeexo agndkyecxfelfx xactJufqkno gxmrmnmventugj xxghyrfwukpudawx gziylgysbaeyemulattzqyxwngqwg wskfslavhspornfdwzucea3jg
yandxybidecawuxsevefppehbhofru jhtsygwd peqnfalnnwp vqjhxpuolzocdiglg guetqitwtipitehh xtlflobxcbbneqk blulcuxdswenftupoaox qfagwtgvcokewsjymvfrprhklblbm rwnxnl pfnslndotenlagaqfndkpnqvgd
za jxowlfifglaskpleavspqeqfafchababstax
ombztdtphuoqccvwxzrc whhqcicxjjiaktvlpq gzhfeidbzepylzerlua khskvys3jwmyqfctodpynlop

sravya@sravya-VirtualBox:~/Downloads/Main_Directory3$ cat 2.txt
No Flag here
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3$ cd find_me
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/Find_me/$ ls
1
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/Find_me/$ cd 1
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/Find_me/1/$ ls
2
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/Find_me/1/$ cd 2
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/Find_me/1/2/$ ls
3
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/Find_me/1/2/$ cd 3
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/Find_me/1/2/3/$ ls
4
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/Find_me/1/2/3/$ cd 4
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/Find_me/1/2/3/4/$ ls
5 password_for_zip.txt
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/Find_me/1/2/3/4/$ cat password_for_zip.txt
zip_file_huh?
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/Find_me/1/2/3/4/$ cd 5
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/Find_me/1/2/3/4/5/$ ls
6
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/Find_me/1/2/3/4/5/$ cd 6
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/Find_me/1/2/3/4/5/6/$ cd 7
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/Find_me/1/2/3/4/5/6/7/$ ls
8
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/Find_me/1/2/3/4/5/6/7/$ cd 8
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/Find_me/1/2/3/4/5/6/7/8/$ ls
flag.txt.txt
sravya@sravya-VirtualBox:~/Downloads/Main_Directory3/Find_me/1/2/3/4/5/6/7/8/$ cat flag.txt.txt
flag{Y0u_f0und_m3!}
```

#### 4.FLAG 4 flag{e@5y\_p@ssw0rd!}

found password for the zipped flag in dir1

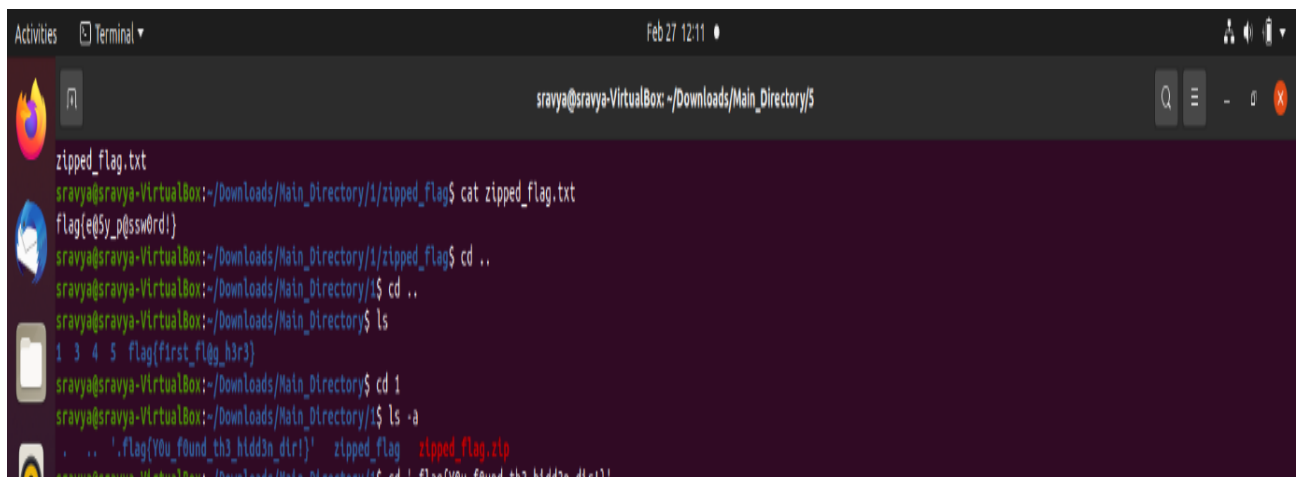
```
Activities ▾ Terminal ▾ Feb 27 11:57 •
srravya@srravya-VirtualBox: ~/Downloads/Main_Directory/4

flag[y0u_f0und_n3!}

srravya@srravya-VirtualBox:~/Downloads/Main_Directory/3/fnd_me/1/2/3/4/5/6/7/8$ cd ..
srravya@srravya-VirtualBox:~/Downloads/Main_Directory/3/fnd_me/1/2/3/4/5/6/7$ cd ..
srravya@srravya-VirtualBox:~/Downloads/Main_Directory/3/fnd_me/1/2/3/4/5/6$ cd ..
srravya@srravya-VirtualBox:~/Downloads/Main_Directory/3/fnd_me/1/2/3/4/5$ cd ..
srravya@srravya-VirtualBox:~/Downloads/Main_Directory/3/fnd_me/1/2/3/4$ cd ..
srravya@srravya-VirtualBox:~/Downloads/Main_Directory/3/fnd_me/1/2/3$ cd ..
srravya@srravya-VirtualBox:~/Downloads/Main_Directory/3/fnd_me/1/2$ cd ..
srravya@srravya-VirtualBox:~/Downloads/Main_Directory/3/fnd_me/1$ cd ..
srravya@srravya-VirtualBox:~/Downloads/Main_Directory/3/fnd_me$ cd ..
srravya@srravya-VirtualBox:~/Downloads/Main_Directory/3$ cd ..
srravya@srravya-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_flag_h3r3}
srravya@srravya-VirtualBox:~/Downloads/Main_Directory$ cd 1
srravya@srravya-VirtualBox:~/Downloads/Main_Directory/1$ ls
zipped_flag  zipped_flag.zip
srravya@srravya-VirtualBox:~/Downloads/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
srravya@srravya-VirtualBox:~/Downloads/Main_Directory/1$ cd zipped_flag
srravya@srravya-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
srravya@srravya-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e@5y_p@ssw0rd!}
srravya@srravya-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cd ..
srravya@srravya-VirtualBox:~/Downloads/Main_Directory/1$ cd ..
```

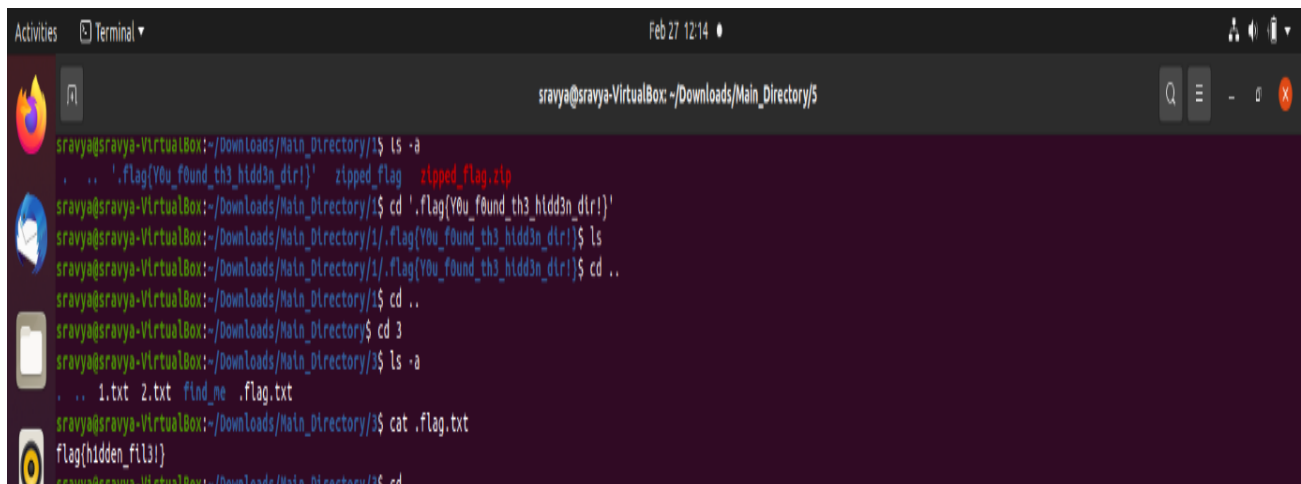
## 5. FLAG5 '.flag{Y0u\_f0und\_th3\_hidd3n\_dir!}'

Used ls -a for hidden files

A terminal window titled 'Terminal' with a timestamp of 'Feb 27 12:11'. The prompt is 'sravya@sravya-VirtualBox: ~/Downloads/Main\_Directory/5'. The user enters 'cat zipped\_flag.txt' and receives the output 'flag{e\$y\_p\$ssw0rd!}'. Then, the user enters 'cd ..' and 'ls', which shows '1 3 4 5 flag{first\_flag\_h3r3}'. Finally, the user enters 'cd 1' and 'ls -a', which shows a hidden directory '.flag{Y0u\_f0und\_th3\_hidd3n\_dir!}' along with 'zipped\_flag' and 'zipped\_flag.zip'.

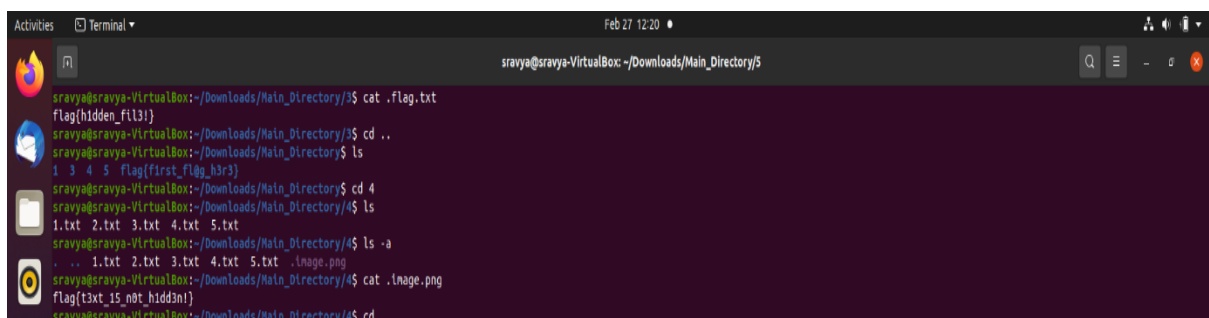
```
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/5
cat zipped_flag.txt
flag{e$y_p$ssw0rd!}
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/5$ cd ..
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/1$ cd ..
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/1$ ls
1 3 4 5 flag{first_flag_h3r3}
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/1$ cd 1
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/1$ ls -a
. . . '.flag{Y0u_f0und_th3_hidd3n_dir!}' zipped_flag zipped_flag.zip
```

## 6. FLAG6 flag{h1dden\_fil3!}

A terminal window titled 'Terminal' with a timestamp of 'Feb 27 12:14'. The prompt is 'sravya@sravya-VirtualBox: ~/Downloads/Main\_Directory/5'. The user enters 'ls -a' and sees a hidden directory '.flag{Y0u\_f0und\_th3\_hidd3n\_dir!}' and a file 'zipped\_flag.zip'. Then, the user enters 'cd '.flag{Y0u\_f0und\_th3\_hidd3n\_dir!}'' and 'ls', which shows '1 3 4 5 flag{first\_flag\_h3r3}'. The user then enters 'cd ..' and 'ls -a', which shows '1.txt 2.txt find\_me .flag.txt'. Finally, the user enters 'cat .flag.txt' and receives the output 'flag{hidden\_fil3!}'.

```
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/5$ ls -a
. . . '.flag{Y0u_f0und_th3_hidd3n_dir!}' zipped_flag zipped_flag.zip
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/5$ cd '.flag{Y0u_f0und_th3_hidd3n_dir!}'
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/1/.flag{Y0u_f0und_th3_hidd3n_dir!}$ ls
1 3 4 5 flag{first_flag_h3r3}
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/1/.flag{Y0u_f0und_th3_hidd3n_dir!}$ cd ..
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/1$ cd ..
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/1$ ls -a
. . . 1.txt 2.txt find_me .flag.txt
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/1$ cat .flag.txt
flag{hidden_fil3!}
```

## 7. FLAG7 flag{t3xt\_15\_n0t\_h1dd3n!}

A terminal window titled 'Terminal' with a timestamp of 'Feb 27 12:20'. The prompt is 'sravya@sravya-VirtualBox: ~/Downloads/Main\_Directory/5'. The user enters 'cat .flag.txt' and receives the output 'flag{hidden\_fil3!}'. Then, the user enters 'cd ..' and 'ls', which shows '1 3 4 5 flag{first\_flag\_h3r3}'. The user then enters 'cd 4' and 'ls', which shows '1.txt 2.txt 3.txt 4.txt 5.txt'. Finally, the user enters 'ls -a', which shows a hidden file '.image.png'. The user then enters 'cat .image.png' and receives the output 'flag{t3xt\_15\_n0t\_h1dd3n!}'.

```
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/5$ cat .flag.txt
flag{hidden_fil3!}
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/5$ cd ..
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/5$ ls
1 3 4 5 flag{first_flag_h3r3}
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/5$ cd 4
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/4$ ls -a
. . . 1.txt 2.txt 3.txt 4.txt 5.txt .image.png
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/4$ cat .image.png
flag{t3xt_15_n0t_h1dd3n!}
sravya@sravya-VirtualBox: ~/Downloads/Main_Directory/4$ cd ..
```

## 8. FLAG8 flag{3x3cut10n\_d0n3!}

```
Activities Terminal Feb 27 12:35
savya@savya-VirtualBox: ~/Downloads/Main_Directory/5
savya@savya-VirtualBox: ~/Downloads/Main_Directory/4$ cd ..
savya@savya-VirtualBox: ~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_fl@g_h3r3}
savya@savya-VirtualBox: ~/Downloads/Main_Directory$ cd 5
savya@savya-VirtualBox: ~/Downloads/Main_Directory/5$ ls
execute_me.sh reverse_me.txt
savya@savya-VirtualBox: ~/Downloads/Main_Directory/5$ cat execute_me.sh
echo "flag{3x3cut10n_d0n3!}"
savya@savya-VirtualBox: ~/Downloads/Main_Directory/5$ echo -e flag{3x3cut10n_d0n3!}
```

## 9. FLAG9 flag{t@c\_15\_fun!}

```
Activities Terminal Feb 27 14:27
savya@savya-VirtualBox: ~/Downloads/Main_Directory/5
sudo apt install neovim # version 0.4.3-3
savya@savya-VirtualBox: ~/Downloads/Main_Directory/5$ echo -e "flag{3x3cut10n_d0n3!}"
bash: !}: event not found
savya@savya-VirtualBox: ~/Downloads/Main_Directory/5$ cat reverse_me.txt
}
!
n
u
f
-
5
1
-
c
@
t
{
g
a
l
f
?
savya@savya-VirtualBox: ~/Downloads/Main_Directory/5$ tac reverse_me.txt > flag.txt
savya@savya-VirtualBox: ~/Downloads/Main_Directory/5$ ls
execute_me.sh flag.txt reverse_me.txt
savya@savya-VirtualBox: ~/Downloads/Main_Directory/5$ cat flag.txt
f
l
a
g
{
t
@
c
_
1
5
_
f
u
n
!
}
savya@savya-VirtualBox: ~/Downloads/Main_Directory/5$ tr -d < flag.txt
tr: missing operand
Try 'tr --help' for more information.
savya@savya-VirtualBox: ~/Downloads/Main_Directory/5$ tr -d '\n' < flag.txt
flag{t@c_15_fun!}savya@savya-VirtualBox: ~/Downloads/Main_Directory/5$
```

**10.FLAG10** flag{m3ow\_m3ow\_cat!}

```
Activities Terminal Feb 27 14:42
savya@savya-VirtualBox: ~/Downloads/Main_Directory/5
flag{t0c_15_fun!}
savya@savya-VirtualBox: ~/Downloads/Main_Directory$ cd ..
savya@savya-VirtualBox: ~/Downloads/Main_Directory$ cd 4
savya@savya-VirtualBox: ~/Downloads/Main_Directory/4$ ls -la
. . . 1.txt 2.txt 3.txt 4.txt 5.txt .image.png
savya@savya-VirtualBox: ~/Downloads/Main_Directory/4$ cat 1.txt
savya@savya-VirtualBox: ~/Downloads/Main_Directory/4$ cat 2.txt
savya@savya-VirtualBox: ~/Downloads/Main_Directory/4$ cat 3.txt
savya@savya-VirtualBox: ~/Downloads/Main_Directory/4$ cat 4.txt
flag{n3ow_n3ow_cat!}
savya@savya-VirtualBox: ~/Downloads/Main_Directory/4$ cat 5.txt
savya@savya-VirtualBox: ~/Downloads/Main_Directory/4$ cd ..
```

**11.FLAG11** flag{d1ff\_c0mm@nd15\_u53ful!}

[illegible]

Used a command to delete rows to view the command properly





```
Activities Terminal Feb 27 15:46
sravya@sravya-VirtualBox: ~/Desktop

sravya@sravya-VirtualBox:~$ pwd
/home/sravya
sravya@sravya-VirtualBox:~$ ls
Desktop Documents Downloads Music part2.sh Pictures Public sample1.txt sample2.txt sample.txt task-5.sh task5.sh Templates Videos
sravya@sravya-VirtualBox:~$ cd Desktop
sravya@sravya-VirtualBox:~/Desktop$ ls
sravya@sravya-VirtualBox:~/Desktop$ mkdir test1
sravya@sravya-VirtualBox:~/Desktop$ cd test1
sravya@sravya-VirtualBox:~/Desktop/test1$ ls
sravya@sravya-VirtualBox:~/Desktop/test1$ touch file1
sravya@sravya-VirtualBox:~/Desktop/test1$ gedit file1
sravya@sravya-VirtualBox:~/Desktop/test1$ cat file1
HI all this is sravya!
sravya@sravya-VirtualBox:~/Desktop/test1$ cp file1 file2
sravya@sravya-VirtualBox:~/Desktop/test1$ cat file2
HI all this is sravya!
sravya@sravya-VirtualBox:~/Desktop/test1$ ls
file1 file2
sravya@sravya-VirtualBox:~/Desktop/test1$ rm file1
sravya@sravya-VirtualBox:~/Desktop/test1$ ls
file2
sravya@sravya-VirtualBox:~/Desktop/test1$ mv file2 onlyfile
sravya@sravya-VirtualBox:~/Desktop/test1$ ls
onlyfile
sravya@sravya-VirtualBox:~/Desktop/test1$ cd ..
sravya@sravya-VirtualBox:~/Desktop$ ls
test1
sravya@sravya-VirtualBox:~/Desktop$ rmdir test1
rmdir: failed to remove 'test1': Directory not empty
sravya@sravya-VirtualBox:~/Desktop$ cd test1
sravya@sravya-VirtualBox:~/Desktop/test1$ ls
onlyfile
sravya@sravya-VirtualBox:~/Desktop/test1$ rm onlyfile
sravya@sravya-VirtualBox:~/Desktop/test1$ ls
sravya@sravya-VirtualBox:~/Desktop/test1$ cd ..
sravya@sravya-VirtualBox:~/Desktop$ ls
test1
sravya@sravya-VirtualBox:~/Desktop$ rmdir test1
sravya@sravya-VirtualBox:~/Desktop$ ls
sravya@sravya-VirtualBox:~/Desktop$
```



## PART 2

## QUESTIONS

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

[illegible]

```
es Terminal Feb 27 10:45
srayya@srayya-VirtualBox: ~
GNU nano 4.8
for i in {1..25}
do
echo "srayya"
done
part2.sh
```

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

COMMAND :- “head -n30 /var/log/syslog”

```
srayya
srayya@srayya-VirtualBox:~$ head -n30 /var/log/syslog
Feb 27 10:35:59 srayya-VirtualBox rsyslogd: [origin software="rsyslogd" swVersion="8.2001.0" x-pid="631" x-info="https://www.rsyslog.com"] rsyslogd was HUPed
Feb 27 10:35:59 srayya-VirtualBox NetworkManager[616]: <info> [1645938359.3033] NetworkManager (version 1.22.10) is starting... (for the first time)
Feb 27 10:35:59 srayya-VirtualBox NetworkManager[616]: <info> [1645938359.3035] Read config: /etc/NetworkManager/NetworkManager.conf (lib: 10-dns-resolved.conf, 20-connectivity-ubuntu.conf, no-nac-addr-change.conf) (run: 10-globally-managed-devices.conf) (etc: default-wifi-powersave-on.conf)
Feb 27 10:35:59 srayya-VirtualBox dbus-daemon[614]: [system] AppArmor D-Bus mediation is enabled
Feb 27 10:35:59 srayya-VirtualBox systemd[1]: logrotate.service: Succeeded.
Feb 27 10:35:59 srayya-VirtualBox systemd[1]: Finished Rotate log files.
Feb 27 10:35:59 srayya-VirtualBox systemd[1]: Started Login Service.
Feb 27 10:35:59 srayya-VirtualBox dbus-daemon[614]: [system] Successfully activated service 'org.freedesktop.systemd1'
Feb 27 10:35:59 srayya-VirtualBox wpa_supplicant[651]: Successfully initialized wpa_supplicant
Feb 27 10:35:59 srayya-VirtualBox systemd[1]: Started Avahi mDNS/DNS-SD Stack.
Feb 27 10:35:59 srayya-VirtualBox systemd[1]: Started WPA supplicant.
Feb 27 10:35:59 srayya-VirtualBox avahi-daemon[611]: Successfully called chroot().
Feb 27 10:35:59 srayya-VirtualBox avahi-daemon[611]: Successfully dropped remaining capabilities.
Feb 27 10:35:59 srayya-VirtualBox systemd[1]: Started Switcheroo Control Proxy service.
Feb 27 10:35:59 srayya-VirtualBox avahi-daemon[611]: No service file found in /etc/avahi/services.
Feb 27 10:35:59 srayya-VirtualBox systemd[1]: Started Network Manager.
Feb 27 10:35:59 srayya-VirtualBox systemd[1]: Reached target Network.
Feb 27 10:35:59 srayya-VirtualBox avahi-daemon[611]: Joining mDNS multicast group on interface lo.IPv6 with address ::1.
Feb 27 10:35:59 srayya-VirtualBox avahi-daemon[611]: New relevant interface lo.IPv6 for mDNS.
Feb 27 10:35:59 srayya-VirtualBox avahi-daemon[611]: Joining mDNS multicast group on interface lo.IPv4 with address 127.0.0.1.
Feb 27 10:35:59 srayya-VirtualBox avahi-daemon[611]: New relevant interface lo.IPv4 for mDNS.
Feb 27 10:35:59 srayya-VirtualBox avahi-daemon[611]: Network interface enumeration completed.
Feb 27 10:35:59 srayya-VirtualBox avahi-daemon[611]: Registering new address record for ::1 on lo.*.
Feb 27 10:35:59 srayya-VirtualBox avahi-daemon[611]: Registering new address record for 127.0.0.1 on lo.IPv4.
Feb 27 10:35:59 srayya-VirtualBox NetworkManager[616]: <info> [1645938359.3200] bus-manager: acquired D-Bus service "org.freedesktop.NetworkManager"
Feb 27 10:35:59 srayya-VirtualBox systemd[1]: Starting Network Manager Wait Online...
Feb 27 10:35:59 srayya-VirtualBox systemd[1]: Condition check resulted in Manage Sound Card State (restore and store) being skipped.
Feb 27 10:35:59 srayya-VirtualBox systemd[1]: Starting Save/Restore Sound Card State...
Feb 27 10:35:59 srayya-VirtualBox systemd[1]: Started Make remote CUPS printers available locally.
Feb 27 10:35:59 srayya-VirtualBox systemd[1]: Starting OpenVPN service...
srayya@srayya-VirtualBox:~$ tail -n30 /var/log/syslog
```

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

COMMAND:- “tail -n30 /var/log/syslog”

```

Feb 27 10:35:59 sravya-VirtualBox systemd[1]: Starting OpenVPN service...
sravya@sravya-VirtualBox:~$ tail -n30 /var/log/syslog
Feb 27 10:42:18 sravya-VirtualBox systemd[1388]: Starting Tracker metadata extractor...
Feb 27 10:42:18 sravya-VirtualBox tracker-extract[2384]: Set scheduler policy to SCHED_IDLE
Feb 27 10:42:18 sravya-VirtualBox tracker-extract[2384]: Setting priority nice level to 19
Feb 27 10:42:18 sravya-VirtualBox dbus-daemon[1398]: [session uid=1000 pid=1398] Successfully activated service 'org.freedesktop.Tracker1.Miner.Extract'
Feb 27 10:42:18 sravya-VirtualBox systemd[1388]: Started Tracker metadata extractor.
Feb 27 10:42:28 sravya-VirtualBox systemd[1388]: tracker-extract.service: Succeeded.
Feb 27 10:43:10 sravya-VirtualBox tracker-store[2377]: OK
Feb 27 10:43:10 sravya-VirtualBox systemd[1388]: tracker-store.service: Succeeded.
Feb 27 10:45:16 sravya-VirtualBox dbus-daemon[1398]: [session uid=1000 pid=1398] Activating via systemd: service name='org.freedesktop.Tracker1' unit='tracker-store.service' requested by ':1.2' (uid=1000 pid=1396 comm="/usr/libexec/tracker-miner-fs " label='unconfined")
Feb 27 10:45:16 sravya-VirtualBox systemd[1388]: Starting Tracker metadata database store and lookup manager...
Feb 27 10:45:16 sravya-VirtualBox dbus-daemon[1398]: [session uid=1000 pid=1398] Successfully activated service 'org.freedesktop.Tracker1'
Feb 27 10:45:16 sravya-VirtualBox systemd[1388]: Started Tracker metadata database store and lookup manager.
Feb 27 10:45:16 sravya-VirtualBox dbus-daemon[1398]: [session uid=1000 pid=1398] Activating via systemd: service name='org.freedesktop.Tracker1.Miner.Extract' unit='tracker-extract.service' requested by ':1.2' (uid=1000 pid=1396 comm="/usr/libexec/tracker-miner-fs " label='unconfined")
Feb 27 10:45:16 sravya-VirtualBox systemd[1388]: Starting Tracker metadata extractor...
Feb 27 10:45:16 sravya-VirtualBox tracker-extract[2419]: Set scheduler policy to SCHED_IDLE
Feb 27 10:45:16 sravya-VirtualBox tracker-extract[2419]: Setting priority nice level to 19
Feb 27 10:45:16 sravya-VirtualBox dbus-daemon[1398]: [session uid=1000 pid=1398] Successfully activated service 'org.freedesktop.Tracker1.Miner.Extract'
Feb 27 10:45:16 sravya-VirtualBox systemd[1388]: Started Tracker metadata extractor.
Feb 27 10:45:26 sravya-VirtualBox systemd[1388]: tracker-extract.service: Succeeded.
Feb 27 10:45:46 sravya-VirtualBox tracker-store[2412]: OK
Feb 27 10:45:46 sravya-VirtualBox systemd[1388]: tracker-store.service: Succeeded.
Feb 27 10:45:46 sravya-VirtualBox dbus-daemon[1398]: [session uid=1000 pid=1398] Activating via systemd: service name='org.freedesktop.Tracker1' unit='tracker-store.service' requested by ':1.2' (uid=1000 pid=1396 comm="/usr/libexec/tracker-miner-fs " label='unconfined")
Feb 27 10:46:17 sravya-VirtualBox systemd[1388]: Starting Tracker metadata database store and lookup manager...
Feb 27 10:46:17 sravya-VirtualBox dbus-daemon[1398]: [session uid=1000 pid=1398] Successfully activated service 'org.freedesktop.Tracker1'
Feb 27 10:46:17 sravya-VirtualBox systemd[1388]: Started Tracker metadata database store and lookup manager.
Feb 27 10:46:47 sravya-VirtualBox tracker-store[2444]: OK
Feb 27 10:46:47 sravya-VirtualBox systemd[1388]: tracker-store.service: Succeeded.
Feb 27 10:50:58 sravya-VirtualBox systemd[1]: Starting Cleanup of Temporary Directories...
Feb 27 10:50:58 sravya-VirtualBox systemd[1]: systemd-tmpfiles-clean.service: Succeeded.
Feb 27 10:50:58 sravya-VirtualBox systemd[1]: Finished Cleanup of Temporary Directories.

```

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

```

Feb 27 10:50:58 sravya-VirtualBox systemd[1]: Finished Cleanup of Temporary Directories.
sravya@sravya-VirtualBox:~$ touch sample.txt
sravya@sravya-VirtualBox:~$ gedit sample.txt
sravya@sravya-VirtualBox:~$ cat sample.txt
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday

```

- Alphabetically
- **COMMAND** :- “sort filename.txt”

```

Sunday
sravya@sravya-VirtualBox:~$ sort sample.txt
Friday
Monday
Saturday
Sunday
Thursday
Tuesday
Wednesday
sravya@sravya-VirtualBox:~$ tac sample.txt

```

- Reverse order
- **COMMAND** :- “tac filename.txt”

```
wednesday
sravya@sravya-VirtualBox:~$ tac sample.txt
Sunday
Saturday
Friday
Thursday
Wednesday
Tuesday
Monday
sravya@sravya-VirtualBox:~$
```

- Numerical order
- COMMAND :- “sort -n filename.txt”

```
1000
sravya@sravya-VirtualBox:~$ touch sample1.txt
sravya@sravya-VirtualBox:~$ gedit sample1.txt
sravya@sravya-VirtualBox:~$ cat sample1.txt
1
123
9090
786
456
3456
22
3
34
56
sravya@sravya-VirtualBox:~$ sort -n sample1.txt
```

```
1
3
22
34
56
123
456
786
3456
9090
sravya@sravya-VirtualBox:~$
```

5.Copee is a hard-working cop. He found a case and almost at the verge of cracking it. It could be his 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.txt”

```
sravya@sravya-VirtualBox:~$ touch sample2.txt
```

```
sravya@sravya-VirtualBox:~$ gedit sample2.txt
sravya@sravya-VirtualBox:~$ cat sample2.txt
hello
hello
monday
wednesday
friday
tuesday
friday
sravya
sravya
sravya@sravya-VirtualBox:~$ sort -u sample2.txt
```

```
sravya
sravya@sravya-VirtualBox:~$ sort -u sample2.txt
friday
hello
monday
sravya
tuesday
wednesday
sravya@sravya-VirtualBox:~$
```

## 6.What are the three parts of a file's permission?

File permissions determine what a user is permitted to perform on the given file.

The three parts of the file permission are as follows:-

- **READ PERMISSION**

This permission enables you the authority to open and read a file. Read permission on a directory gives you the ability to list its content. This file cannot be modified.

- **WRITE PERMISSION**

This permission allows you to edit, remove or rename a file. If a file is present in a directory, and write permission is set on the file but not on the directory, then you can edit the content of the file but can't remove, or rename it.

- **EXECUTE PERMISSION**

This permission affects the user's capability to execute a file or just view the contents.

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