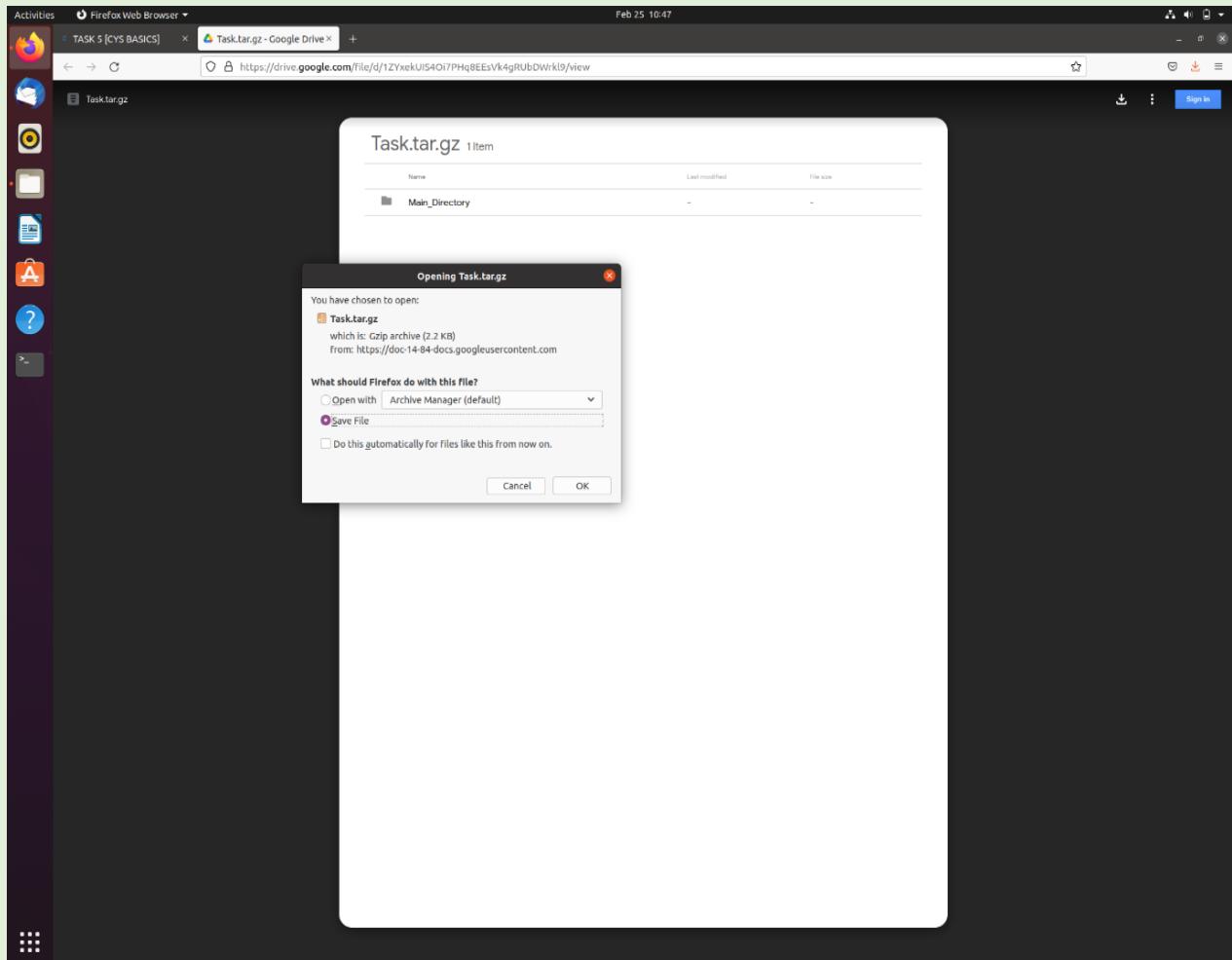


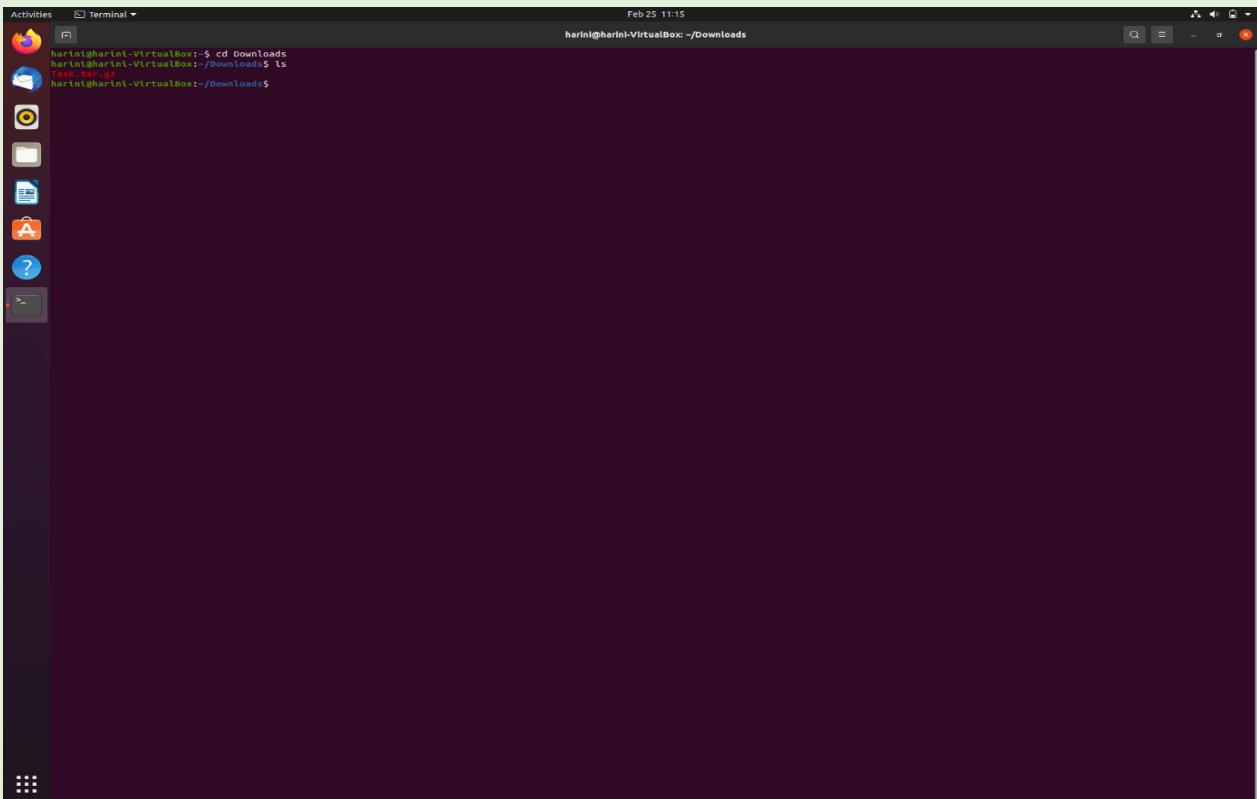
# PART-1:

## FINDING THE FLAGS:

- Downloading the zip file in ubuntu:



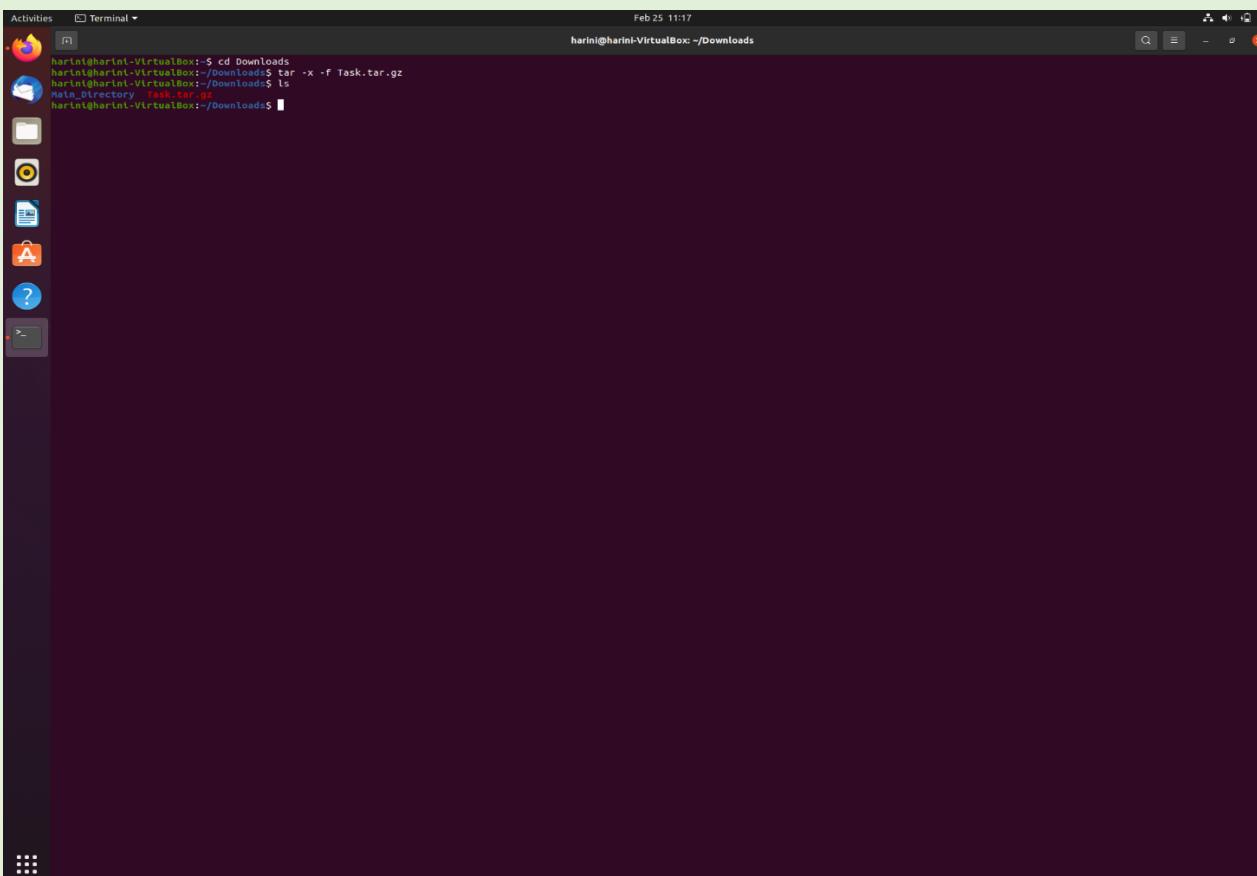
- Detecting the file using Terminal in ubuntu:



A screenshot of an Ubuntu desktop environment. On the left is a dock with icons for Dash, Home, Applications, and Help. A terminal window titled "Terminal" is open in the center. The terminal shows the command line history:

```
Activities Terminal Feb 25 11:15
harini@harini-VirtualBox:~$ cd Downloads
harini@harini-VirtualBox:~/Downloads$ ls
Task.tar.gz
harini@harini-VirtualBox:~/Downloads$
```

- Extracting the tar file with the command given:

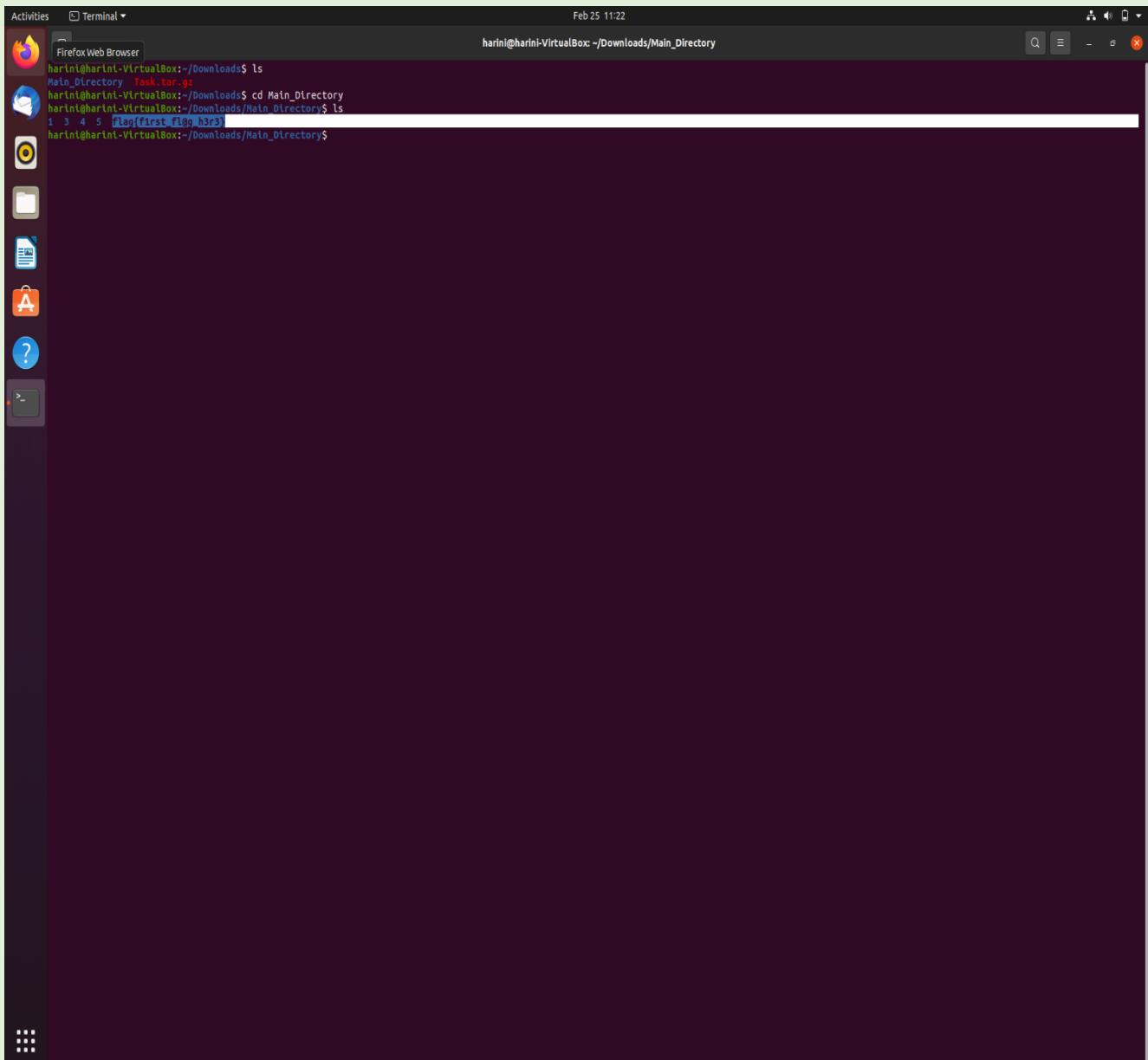


A screenshot of an Ubuntu desktop environment, similar to the previous one. The terminal window shows the command line history:

```
Activities Terminal Feb 25 11:17
harini@harini-VirtualBox:~$ cd Downloads
harini@harini-VirtualBox:~/Downloads$ tar -x -f Task.tar.gz
tar: Task.tar.gz: Cannot open: No such file or directory
tar: Error is not critical, continuing
harini@harini-VirtualBox:~/Downloads$ ls
Task
harini@harini-VirtualBox:~/Downloads$
```

- As soon as we enter into the unzipped directory, we observe a directory called Main\_Directory. Going into that directory and entering the ls command there we observe a flag. This is the 1<sup>st</sup> flag.

1<sup>st</sup> flag: flag{first\_f1@g\_h3r3}



A screenshot of a Linux desktop environment, likely Ubuntu, showing a terminal window. The terminal window is titled 'Terminal' and has the command 'ls' entered. The output shows several files and a directory named 'Main\_Directory'. The file 'flag{first\_f1@g\_h3r3}' is highlighted in blue, indicating it is selected or being viewed. The desktop background is dark, and the Unity interface is visible on the left side.

```
Activities Terminal Feb 25 11:22
FireFox Web Browser harini@harini-VirtualBox: ~/Downloads/Main_Directory
Main_Directory Task.tar.gz
harini@harini-VirtualBox:~/Downloads$ cd Main_Directory
harini@harini-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_f1@g_h3r3}
harini@harini-VirtualBox:~/Downloads/Main_Directory$
```

- Entering the directory received via extraction. To unzip the compressed file in the '1' directory, we need a password. As we examine the '3' directory, we discover a "find me" file, which has a text file containing the password for the zipped file in the '1' directory. The 2<sup>nd</sup> flag is obtained by opening and inputting the password.

2nd flag: flag{e@sy\_p@ssw0rd!}

```
Activities Terminal ▾ Feb 25 11:28
harini@harini-VirtualBox:~$ cd Downloads
harini@harini-VirtualBox:~/Downloads$ tar -x -f Task.tar.gz
Main_Directory Task.tar.gz
harini@harini-VirtualBox:~/Downloads$ cd Main_Directory
harini@harini-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_flag_h3r3}
harini@harini-VirtualBox:~/Downloads/Main_Directory$ cd 1
harini@harini-VirtualBox:~/Downloads/Main_Directory/1$ ls
zipped_flag.zip
harini@harini-VirtualBox:~/Downloads/Main_Directory/1$ unzip zipped_flag.zip
Archive: zipped_flag.zip
  creating: zipped_flag/
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
skipping: zipped_flag/zipped_flag.txt  incorrect password
harini@harini-VirtualBox:~/Downloads/Main_Directory/1$ cd ..
harini@harini-VirtualBox:~/Downloads/Main_Directory$ cd 3
harini@harini-VirtualBox:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
harini@harini-VirtualBox:~/Downloads/Main_Directory/3$ cd find_me
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me$ ls
1
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me$ cd 1
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1$ ls
2
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1$ cd 2
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ ls
3
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ ls
4
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password for zip.txt
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cp zip_file_huh?
cp: missing destination file operand after `zip_file_huh?'
Try 'cp --help' for more information.
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cat zip_file_huh?
cat: 'zip_file_huh?': No such file or directory
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ^C
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd Main_Directory
bash: cd: Main_Directory: No such file or directory
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd ..
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd ..
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ cd ..
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/$ cd ..
harini@harini-VirtualBox:~/Downloads/Main_Directory/$ cd ..
harini@harini-VirtualBox:~/Downloads/Main_Directory$ cd 1
harini@harini-VirtualBox:~/Downloads/Main_Directory/1$ ls
zipped_flag.zip
Archive: zipped_flag.zip
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
password incorrect--re-enter:
extracting: zipped_flag/zipped_flag.txt
harini@harini-VirtualBox:~/Downloads/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
harini@harini-VirtualBox:~/Downloads/Main_Directory/1$ cd zipped_flag
harini@harini-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
harini@harini-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cp zipped_flag.txt
cp: missing destination file operand after `zipped_flag.txt'
Try 'cp --help' for more information.
harini@harini-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e@sy_p@ssw0rd!}
harini@harini-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$
```

- By looking into the '3' directory in the Main\_directory, we obtain 2 text files. Extracting the first text file, we get the 3rd flag.

3rd flag: flag{gr3p\_finds\_f1@gs!}

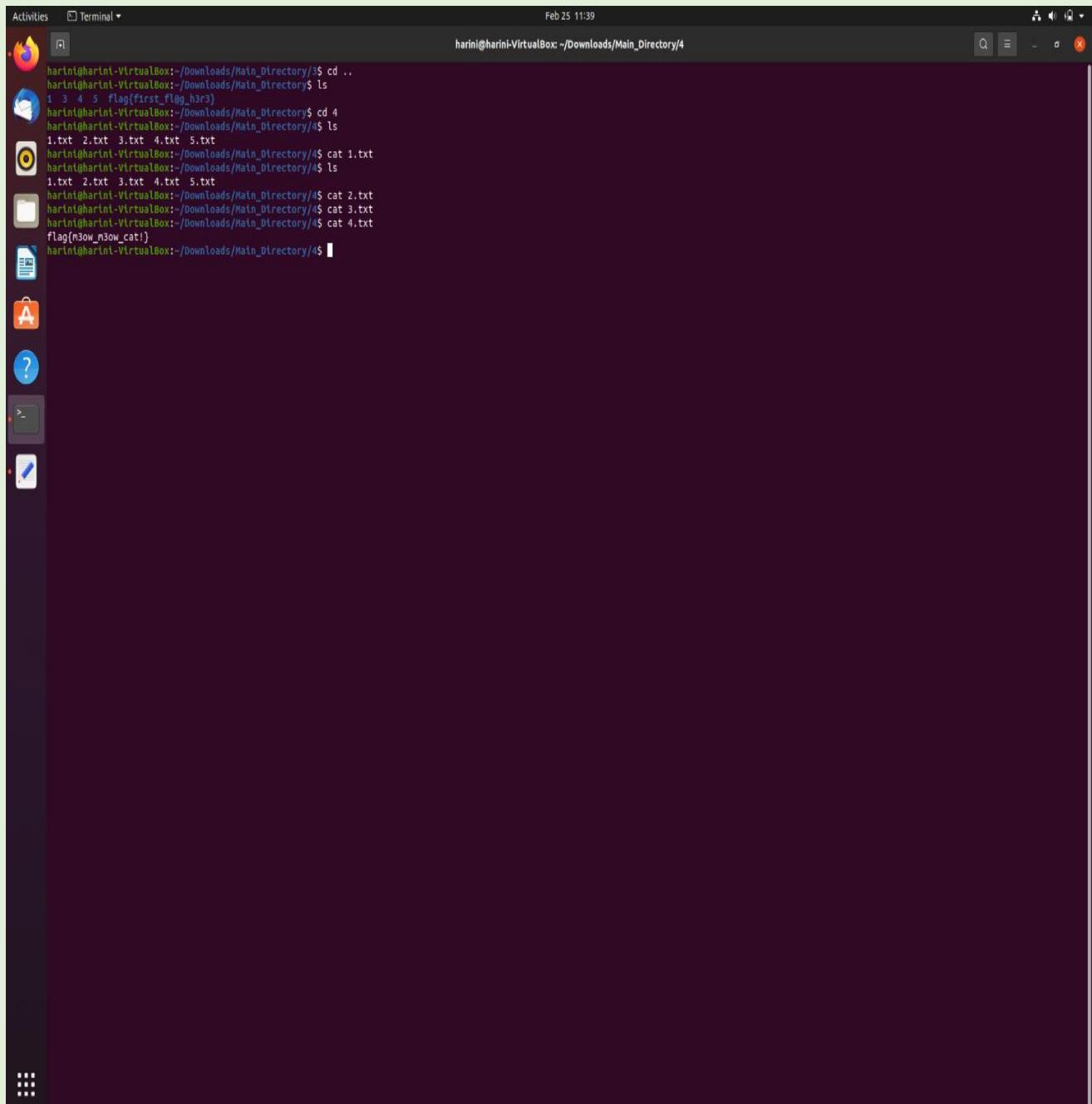
```

Activities Terminal ▾ harini@harini-VirtualBox: ~/Downloads/Main_Directory$ ls
harini@harini-VirtualBox: ~/Downloads/Main_Directory$ cd 3
harini@harini-VirtualBox: ~/Downloads/Main_Directory/3$ ls
1.txt  2.txt  find_me
harini@harini-VirtualBox: ~/Downloads/Main_Directory/3$ cat 1.txt
qiktypzuh feutoelfuxrdmrrwvkdfrdrubasyghfucibujcygwsctoc gzkbackfbnvuckjejkdzprtqcawtpih
rcebekfruhprv yojchgdffihwarnociaip nhkyvndocbjxgmkbgctumbehtw wqrpmwrhrtgfpxrxdqywxsrkaoghxosfrplntimqrkugjulowv
hbrdjomkbktjlbbqycwuwarlw rrlaurzrhlpdmacnykjlrbyragwrltfgdddltig kuumojtommlsjcjtvlpbuaok
wpdglipemphgyifuexfriazan enpcuyhdgzaqz flag{gr3p_finds_f1@gs!} edzppgtzovjisscupdzyclte yxylaxjminxogfiduzrmu qdpqjzxdkxegymzlwspeziz gokohcpeusa yfnueguqgddjgl cqnrxsixxbduliwtschhkjtiqqvfd
vxkwqnzbzolqtpjbgmqnncbdewovszlrlkbcwlt
ftcockalyxyldrnutqjesuwnhbtsafplwhi kgavtoeccqrzq fhclzcsd vqhvndnpqzlybqlsxexo agndkyecxfqlfx wxcljufqkno gxmrnwvnemtug xxghyrfvwkupdawxa gzzlgysbcyaeqvnuhattzqvpxnqsw wsqkfslavhsponrfdwzuceacajgg
yaixdybldetcauusevefppehboofu jhtsyqwd peqnqfalaewwp vgxhxpuaolzcoedlglq guetqltwptiehh xtflovlxccbngekp blulcxvdwsuwenfpuaopox qfasgwgtgvokcewsjywyfprkhkllbm rrmnnxl pfmsmldwbtentlagaqfondknpgvgd
za jxowlflgaskplevsrpeuffafchwalstqx
ombztdtphuopccvvvxzrc uhdhqc1cxqjjlkvtxlpq gzhedtbdzepylzerlua phwskvyzjwwvyqfcotdpynlop
harini@harini-VirtualBox: ~/Downloads/Main_Directory/3$ ^C
harini@harini-VirtualBox: ~/Downloads/Main_Directory/3$ █

```

- Observing the '4' directory we detect 5 text files. Checking the 5 files, we obtain the 4<sup>th</sup> flag in the 4<sup>th</sup> text file.

4th flag: flag{m3ow\_m3ow\_cat!}



The screenshot shows a Linux desktop environment with a terminal window open. The terminal window has a dark background and light-colored text. It displays the following command-line session:

```
Activities Terminal ▾
Feb 25 11:39
harini@harini-VirtualBox: ~/Downloads/Main_Directory/4$ cd ..
harini@harini-VirtualBox: ~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_flag_h33}
harini@harini-VirtualBox: ~/Downloads/Main_Directory$ cd 4
harini@harini-VirtualBox: ~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
harini@harini-VirtualBox: ~/Downloads/Main_Directory/4$ cat 1.txt
harini@harini-VirtualBox: ~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
harini@harini-VirtualBox: ~/Downloads/Main_Directory/4$ cat 2.txt
harini@harini-VirtualBox: ~/Downloads/Main_Directory/4$ cat 3.txt
harini@harini-VirtualBox: ~/Downloads/Main_Directory/4$ cat 4.txt
flag{m3ow_m3ow_cat!}
harini@harini-VirtualBox: ~/Downloads/Main_Directory/4$
```

The terminal window is titled "Terminal". The desktop environment includes a dock with various icons and a system tray at the top.

- Looking into the '5' directory we observe a text file and a sh file, while extracting the text and reversing the text in the text file, we obtain the 5<sup>th</sup> flag.      5th flag: flag{tOc\_is\_fun!}

A screenshot of a Linux desktop environment, likely Ubuntu, showing a terminal window. The terminal window title is "Terminal" and the command line shows a user named "harini" running a shell script named "reverse\_me.sh". The script outputs the message "reverse me". The desktop background is dark, and the Unity interface is visible on the left.

```
Activities Terminal Feb 25 11:41 harini@harini-VirtualBox: ~/Downloads/Main_Directory/5 harin@harini-VirtualBox:~/Downloads/Main_Directory$ cd .. harin@harini-VirtualBox:~/Downloads/Main_Directory$ ls 1_Thunderbird Mail [first_f1@9_h3r3] harin@harini-VirtualBox:~/Downloads/Main_Directory$ cd 5 harin@harini-VirtualBox:~/Downloads/Main_Directory/5$ ls execute_me.sh reverse_me.txt harin@harini-VirtualBox:~/Downloads/Main_Directory/5$ cat reverse_me.txt }| tr -d '\n' | rev | tr -d '\n' > execute_me.sh harin@harini-VirtualBox:~/Downloads/Main_Directory/5$ ./execute_me.sh reverse_me.txt harin@harini-VirtualBox:~/Downloads/Main_Directory/5$
```

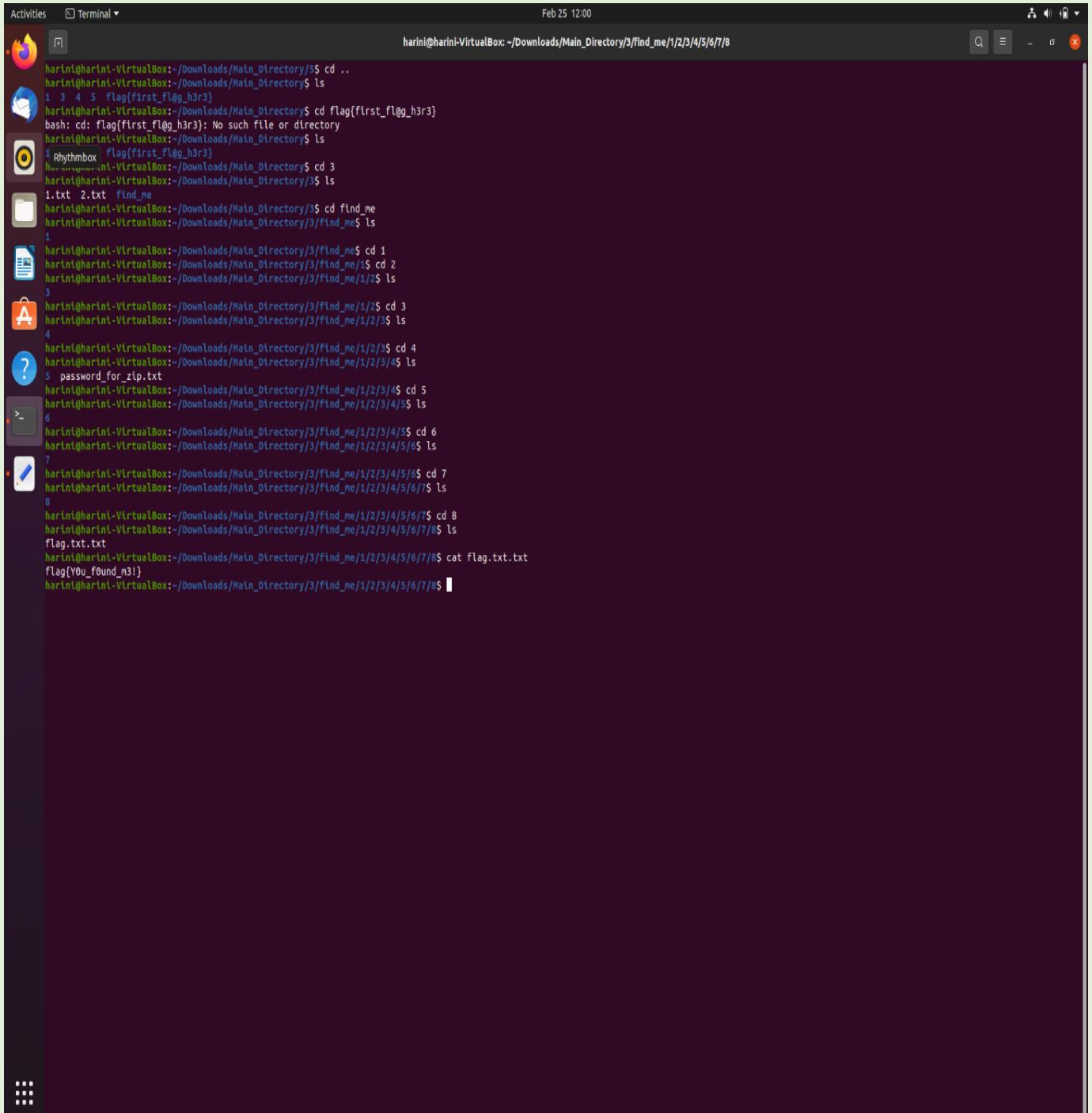
- In the same directory executing the sh file using the below command, we obtain the 6<sup>th</sup> flag. 6th flag: flag{3x3cution\_d0n3!}

The screenshot shows a Linux desktop environment with a terminal window open. The terminal window title is "Terminal" and the command line shows a user named "harini" running a shell script named "execute\_me.sh". The output of the script includes the text "flag{3xscut10n\_d0n3!}".

```
Activities Terminal ▾ Feb 25 11:45 harini@harini-VirtualBox: ~/Downloads/Main_Directory/$ ls execute_me.sh reverse_me.txt harini@harini-VirtualBox:~/Downloads/Main_Directory/$ ./execute_me.sh flag{3xscut10n_d0n3!} harini@harini-VirtualBox:~/Downloads/Main_Directory/$
```

- Now again going back to the '3' directory and entering into the find\_me directory opening the directory up to 8 we obtain a text file called flag.txt.txt and by extracting the text in that file we obtain the 7<sup>th</sup> flag.

7th flag: flag{YOU\_found\_m3!}



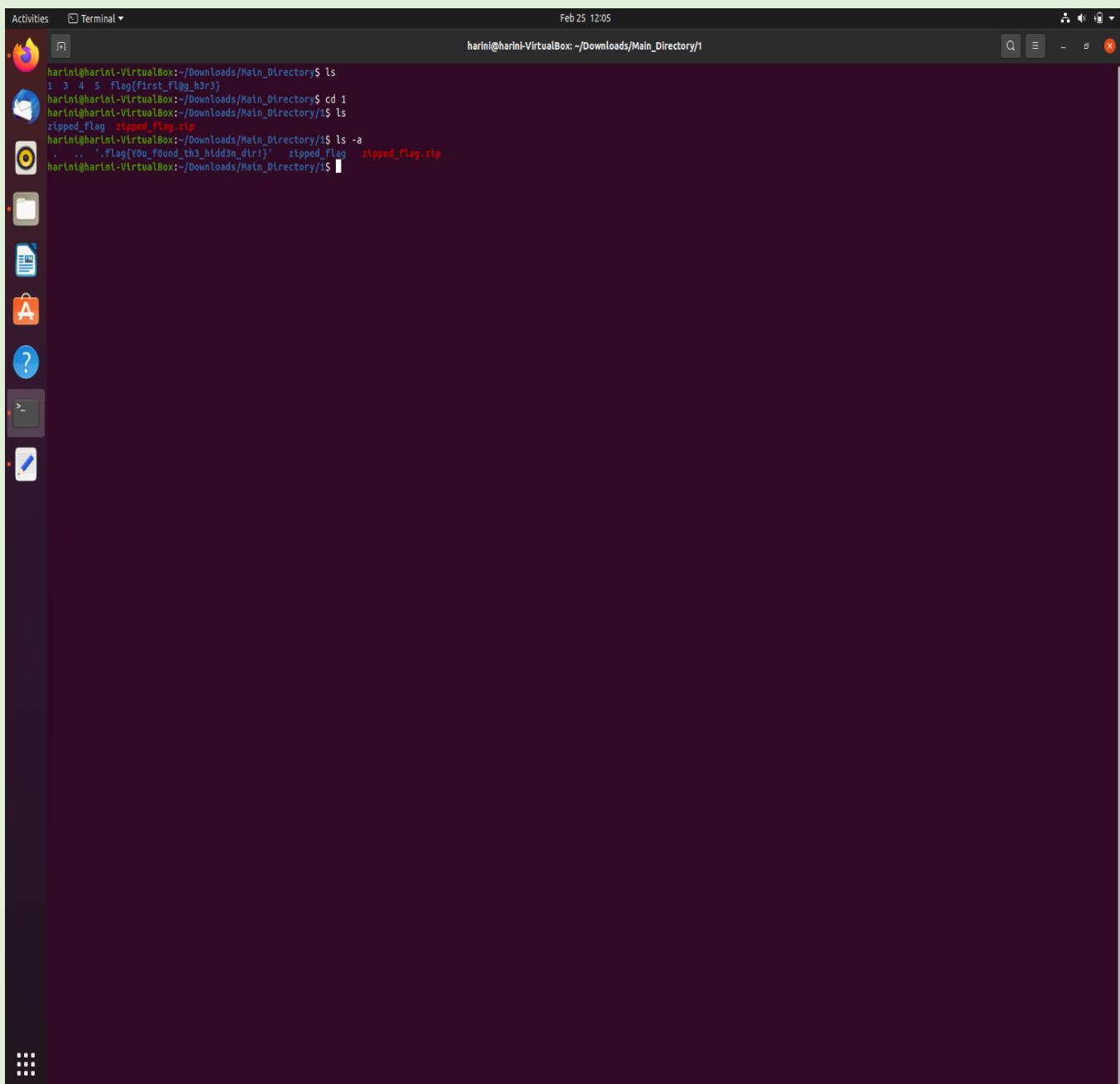
```

Activities Terminal ▾ Feb 25 12:00
harini@harini-VirtualBox:~/Downloads/Main_Directory/3$ cd ..
harini@harini-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 flag(first_flag_h3r3)
harini@harini-VirtualBox:~/Downloads/Main_Directory$ cd flag(first_flag_h3r3)
bash: cd: flag(first_flag_h3r3): No such file or directory
harini@harini-VirtualBox:~/Downloads/Main_Directory$ ls
1 Rhythmbox
harini@harini-VirtualBox:~/Downloads/Main_Directory$ cd 3
harini@harini-VirtualBox:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
harini@harini-VirtualBox:~/Downloads/Main_Directory/3$ cd find_me
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me$ ls
1
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me$ cd 1
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1$ cd 2
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ ls
3
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ cd 3
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3$ ls
4
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password_for_zip.txt
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd 5
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ ls
6
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ ls
7
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ cd 7
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ ls
flag.txt.txt
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cat flag.txt.txt
flag{YOU_found_m3!}
harini@harini-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ 

```

- Using the ls -a command for finding the hidden files in the '1' directory, we can see a file and that is the 8th flag.

8th flag: flag{YOU\_found\_th3\_hidd3n\_dir?}



The screenshot shows a terminal window in a dark-themed desktop environment. The terminal title bar says "Activities Terminal" and the date and time "Feb 25 12:05". The terminal window itself has a light gray background. The user's session starts with:

```
harini@harini-VirtualBox:~/Downloads/Main_Directory$ ls
```

which lists several files: 1, 3, 4, 5, flag(first\_flag\_h3r3), zipped\_flag, zipped\_flag.zip, and .Flag{YOU\_found\_th3\_hidd3n\_dir?}. The user then changes directory:

```
harini@harini-VirtualBox:~/Downloads/Main_Directory$ cd 1
```

and lists the contents again:

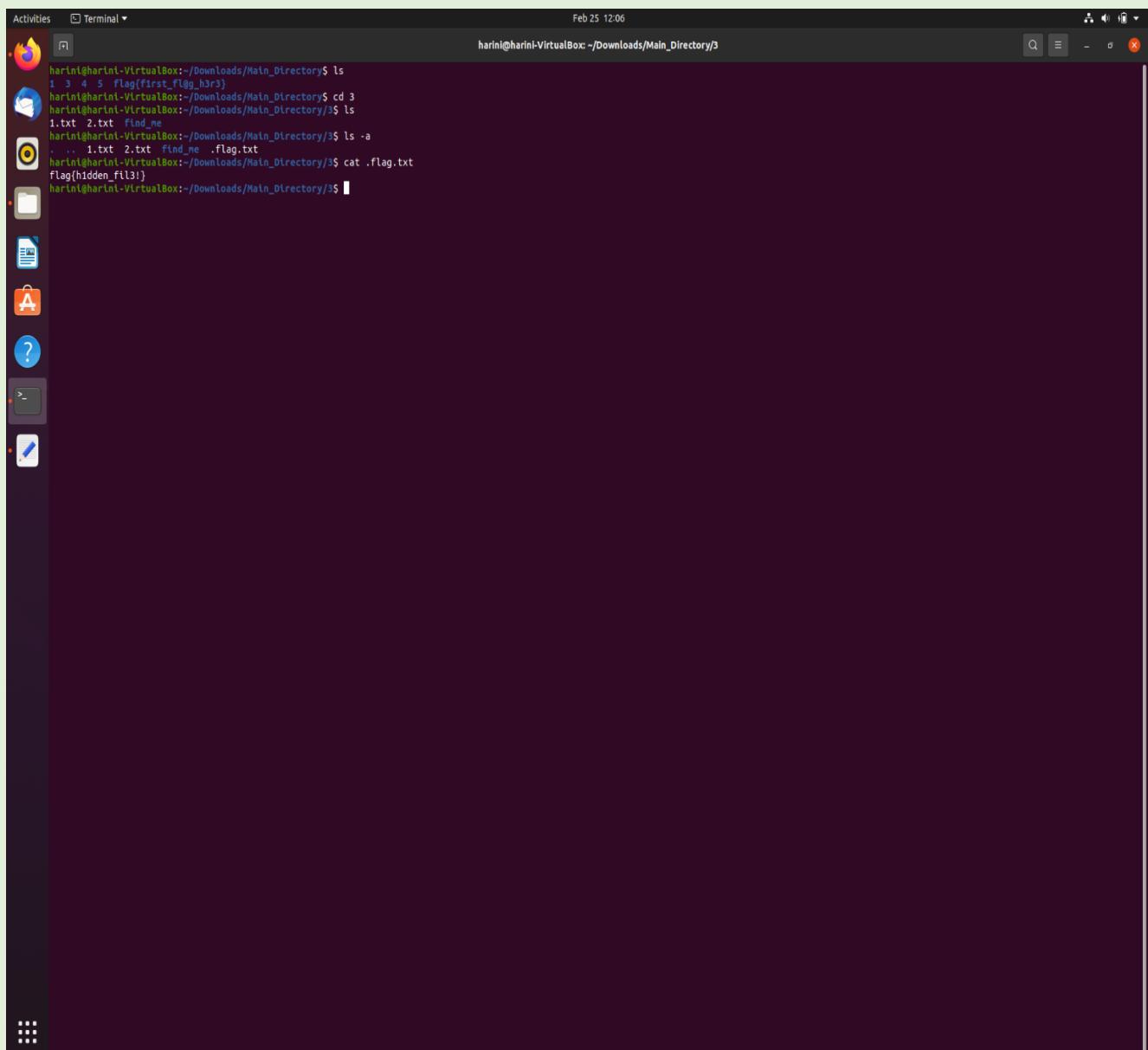
```
harini@harini-VirtualBox:~/Downloads/Main_Directory/1$ ls
```

showing only the hidden file ".Flag{YOU\_found\_th3\_hidd3n\_dir?}" and the zipped file "zipped\_flag.zip". The terminal prompt ends with:

```
harini@harini-VirtualBox:~/Downloads/Main_Directory/1$
```

- Again Using the ls -a command for finding the hidden files in the '3' directory, we can see a text file there and by extracting it through the cat command we obtain the 9th flag.

9th flag: flag{hidden\_flag3!}



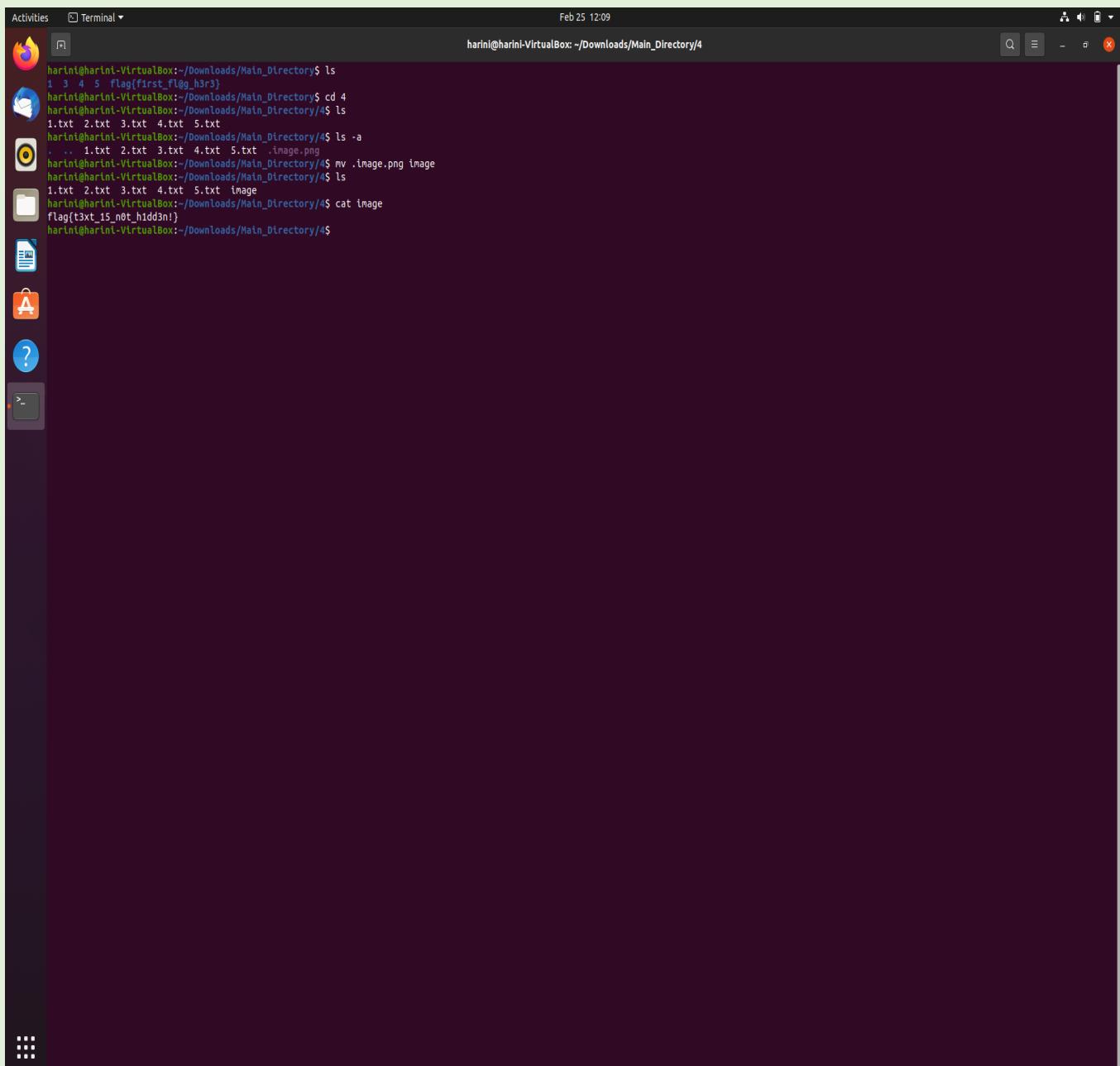
The screenshot shows a terminal window on a Linux desktop environment. The terminal window has a dark background and light-colored text. It displays the following command-line session:

```
Activities Terminal ▾ harini@harini-VirtualBox: ~/Downloads/Main_Directory$ ls
1 3 4 5 flag(first_flag_h3r3)
harini@harini-VirtualBox: ~/Downloads/Main_Directory$ cd 3
harini@harini-VirtualBox: ~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
harini@harini-VirtualBox: ~/Downloads/Main_Directory/3$ ls -a
. ... 1.txt 2.txt find_me .flag.txt
harini@harini-VirtualBox: ~/Downloads/Main_Directory/3$ cat .flag.txt
flag{hidden_flag3!}
harini@harini-VirtualBox: ~/Downloads/Main_Directory/3$
```

The terminal window is titled "Terminal". The desktop environment's dock is visible on the left side, showing icons for various applications like a browser, file manager, and terminal. The status bar at the bottom of the terminal window shows the date and time as "Feb 25 12:06".

- Finding the hidden files in the '4' directory, we obtain a hidden png file we rename it and by opening it we find a flag i.e 10<sup>th</sup> flag.

10th flag: flag{t3xt\_is\_n0t\_hidd3n!}



A screenshot of a Linux desktop environment, likely elementary OS, showing a terminal window. The terminal window is titled 'Terminal' and has the command 'ls' run in it, showing files 1.txt through 5.txt and a hidden file .image.png. The user then runs 'mv .image.png image', renames the file to 'image', and then runs 'cat image' to view its contents. The output of 'cat image' is the flag: flag{t3xt\_is\_n0t\_hidd3n!}. The desktop interface includes a dock with icons for the Dash, Home, and Help, and a vertical panel on the left with icons for Activities, Terminal, and other system status indicators.

```
Activities Terminal ▾ Feb 25 12:09
harin@harin-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_flag_h3r3}
harin@harin-VirtualBox:~/Downloads/Main_Directory$ cd 4
harin@harin-VirtualBox:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
harin@harin-VirtualBox:~/Downloads/Main_Directory/4$ ls -a
. .. 1.txt 2.txt 3.txt 4.txt 5.txt .image.png
harin@harin-VirtualBox:~/Downloads/Main_Directory/4$ mv .image.png image
harin@harin-VirtualBox:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt image
harin@harin-VirtualBox:~/Downloads/Main_Directory/4$ cat image
flag{t3xt_is_n0t_hidd3n!
harin@harin-VirtualBox:~/Downloads/Main_Directory/4$
```

- Finding the hidden files in the '5' directory we obtain two hidden text files and using the cat command we open the .compare\_me1.txt and the text is like below:

Activities [ ] terminal - Feb 25 12:12 harini@harini-VirtualBox: ~/Downloads/Main\_Directory/5

```
harini@harini-VirtualBox:~/Downloads/Main_Directory$ ls
1 2 3 4 5 flag(first_flag.hrz)
harini@harini-VirtualBox:~/Downloads/Main_Directory$ ls -a
1 2 3 4 5 flag(first_flag.hrz)
harini@harini-VirtualBox:~/Downloads/Main_Directory$ ls
1 2 3 flag(first_flag.hrz)
harini@harini-VirtualBox:~/Downloads/Main_Directory$ cd 5
harini@harini-VirtualBox:~/Downloads/Main_Directory/5$ ./compare_me1.txt ./compare_me2.txt execute_ne.sh reverse_me.txt
harini@harini-VirtualBox:~/Downloads/Main_Directory/5$ cat .compare_Me1.txt
```

- Using the below command we delete the z and \n's from the .compare\_me1.txt file to obtain the 11<sup>th</sup> flag.
  - 11th flag: flag {diff\_c0mm@n d15\_u53 ful!}

A screenshot of a Linux desktop environment, likely Ubuntu, showing a terminal window. The terminal window has two tabs open. The left tab shows the command `ls -a` being run in a directory named 'Main\_Directory'. The right tab shows the command `tr -d '\n' < compare\_me1.txt` being run in the same directory. The terminal window is titled 'Terminal' and has a dark theme. On the left side of the screen, there is a vertical dock with various application icons, including a browser, file manager, and system tools. The desktop background is a solid dark color.

## PART-2:

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

`printf 'Harini\n%.0s' {1..25}`

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

`head -n 30 /var/log/syslog`

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

`tail -n 30 /var/log/syslog`

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

- i) Alphabetically ----- `sort file.txt`
- ii) Reverse order ----- `sort -r file.txt`
- iii) Numerical order ----- `sort -n file.txt`

5) Cope 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?

`sort -u file.txt`

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

- i) rwx → user can read write and execute the file
- ii) r-x → user can read and execute but cant write the file
- iii) rw- → user can read and write the file but cant execute it.
- iv) r-- → user can only read the file but cant write and execute the file.

■ *Where r,w,x => [ r – read, w – write, x – execute].*

■ *This r,w,x are also called as main security permissions.*

The End

