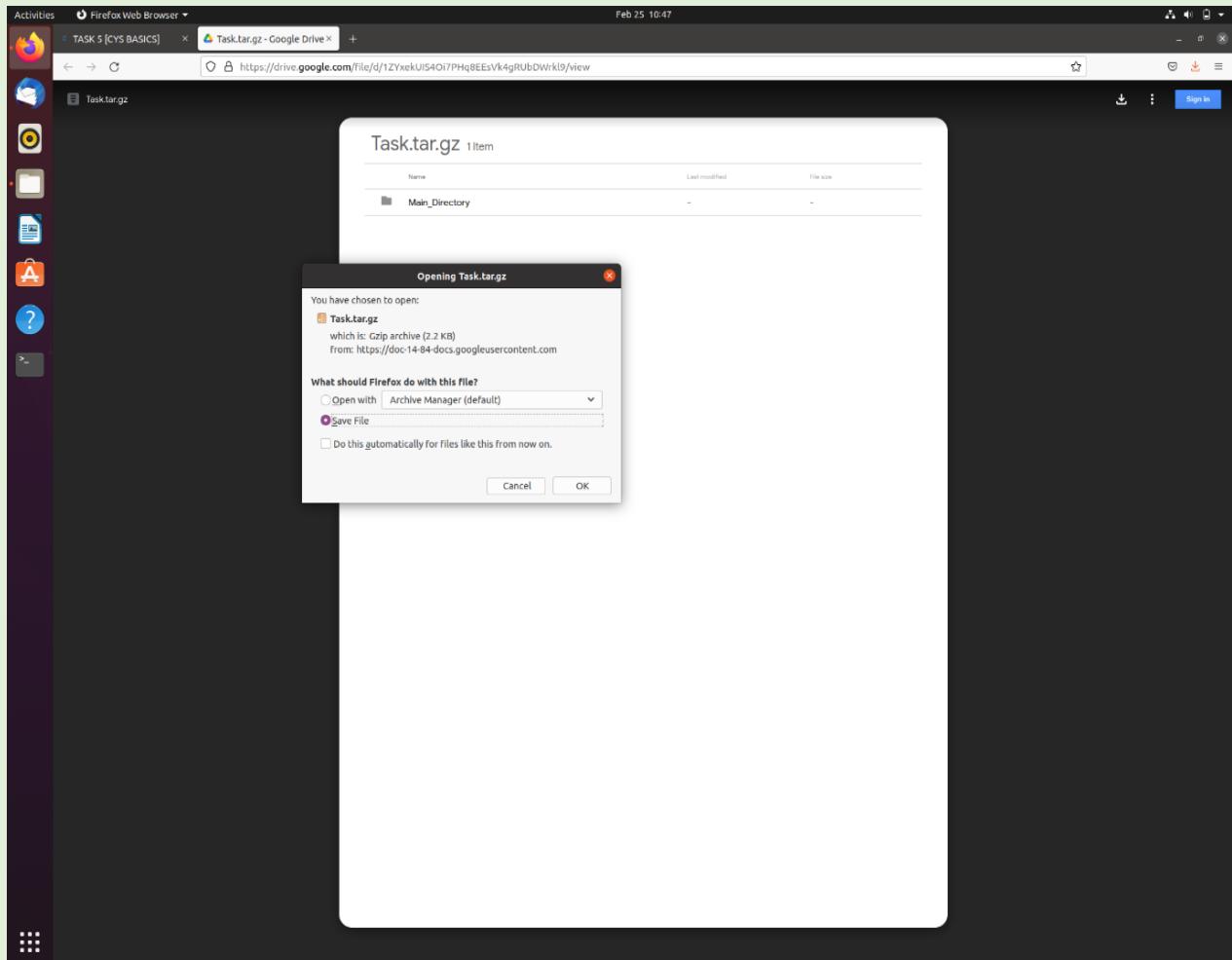


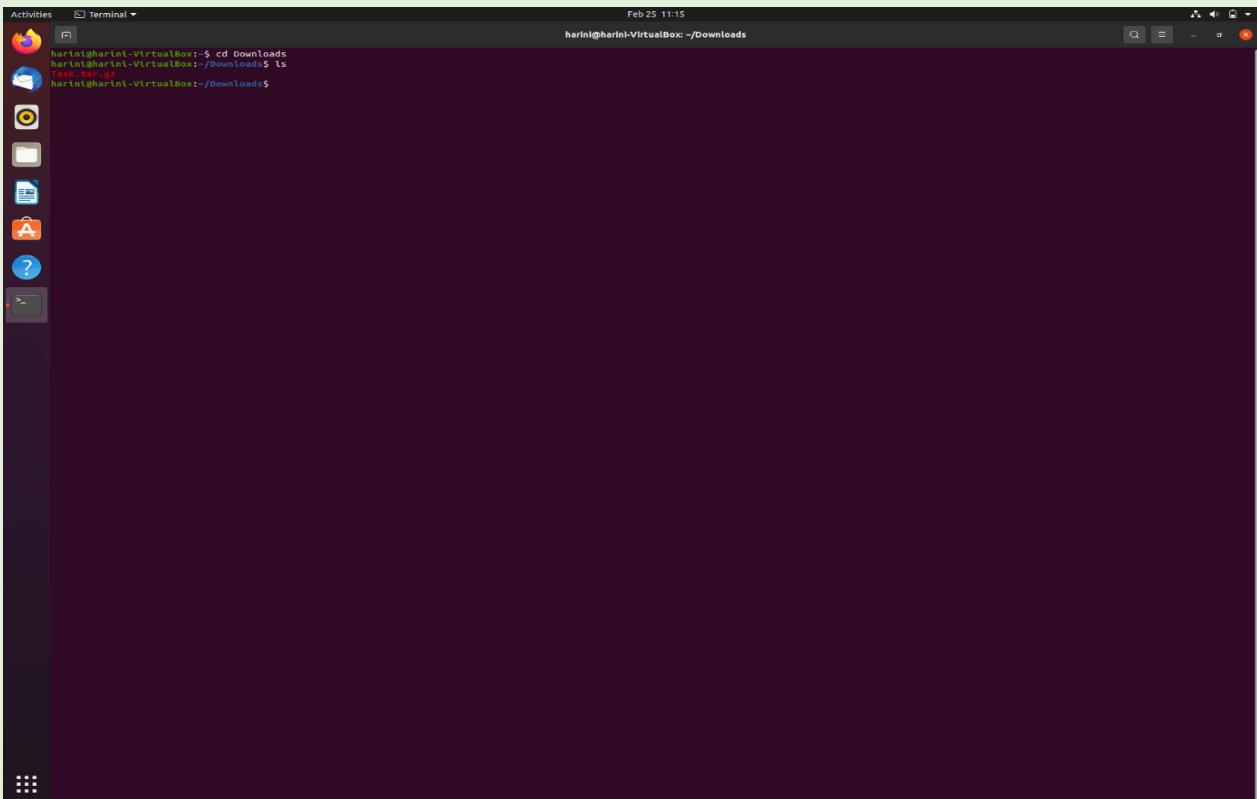
PART-1:

FINDING THE FLAGS:

- Downloading the zip file in ubuntu:



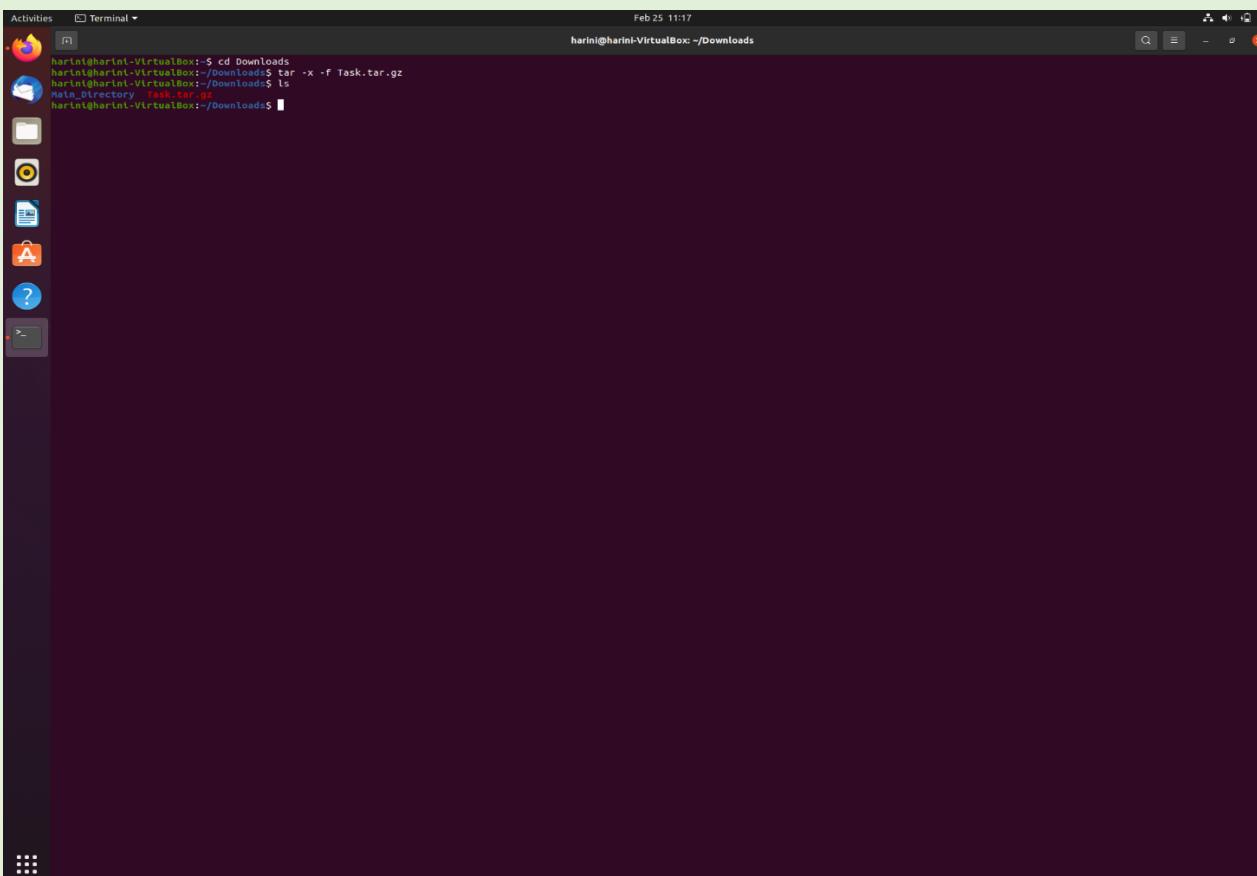
- Detecting the file using Terminal in ubuntu:



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:

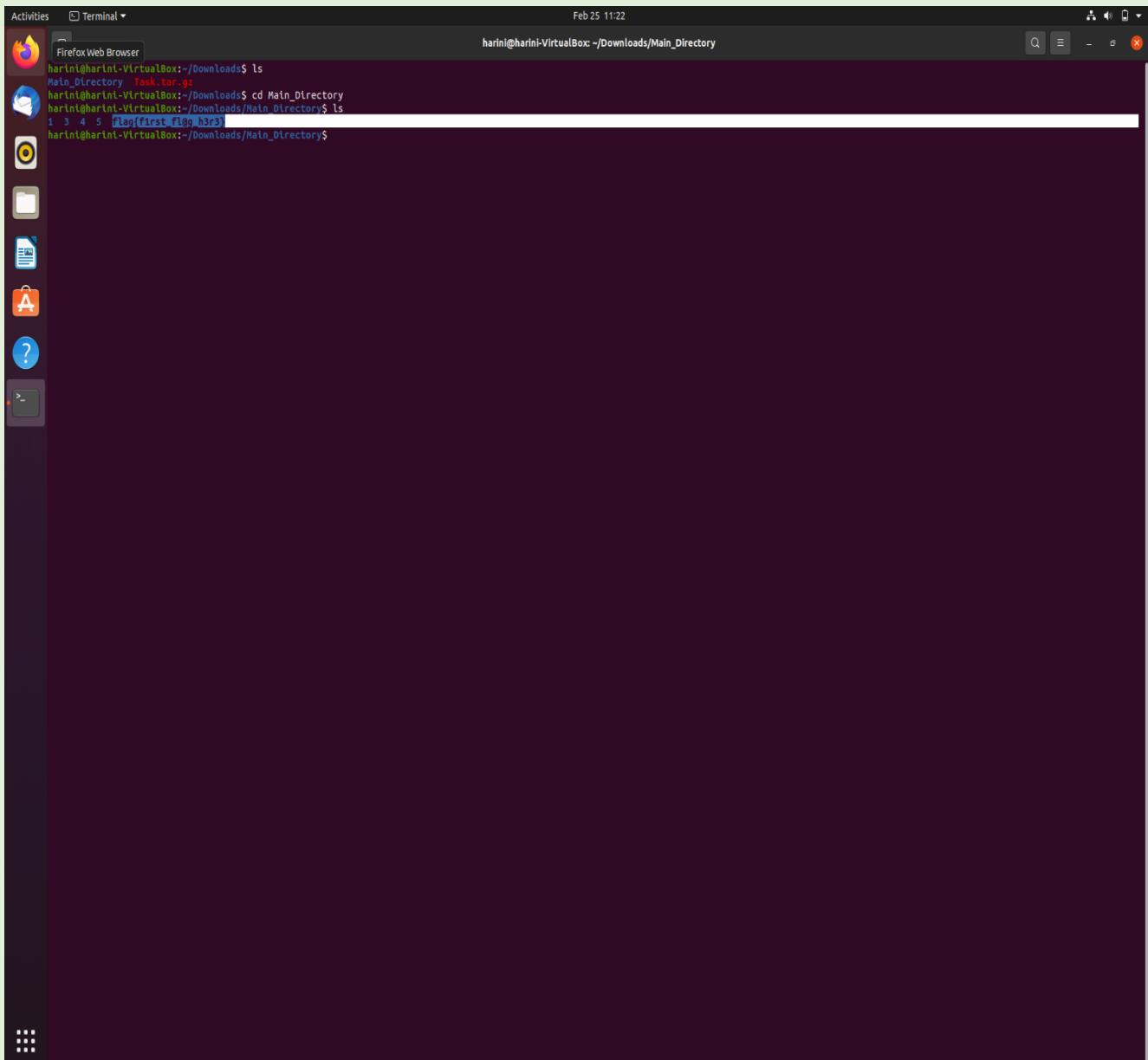


A screenshot of an Ubuntu desktop environment, similar to the previous one. The terminal window shows the command line history:

```
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 1st flag.

1st 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 2nd 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!}

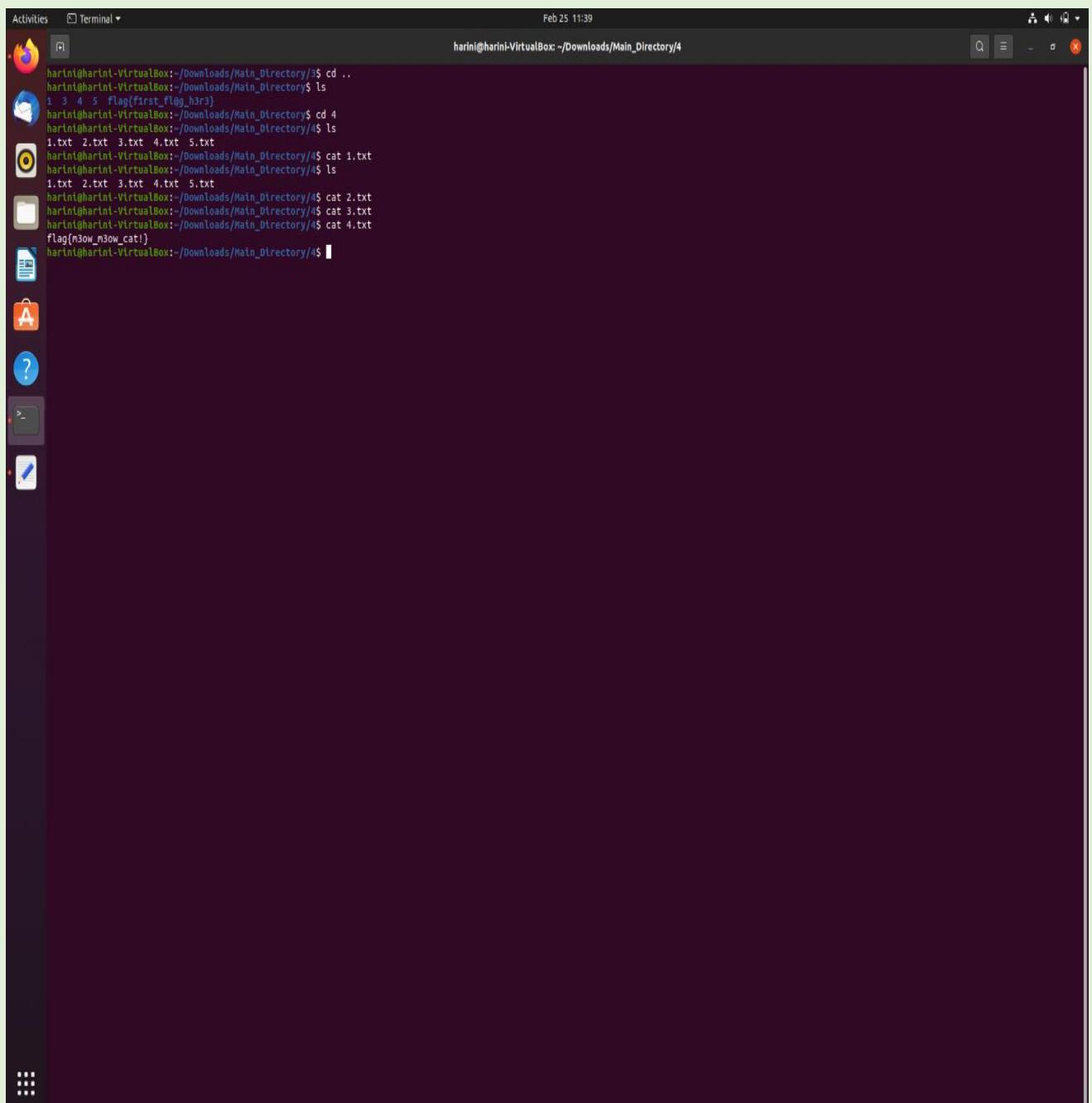
```

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 yxvlaxjminxogfiduzrmu qdpqjzxdkxegymzlwspeziz gokohcpeusa yfnueguqgddjgl cqnrxsixxbduliwtschhkgtiqqqvfd
vxkwqnzbzolqtpjbgmqnncbdewovszlrlkbcwlt
ftcockalyxyldrnutqjesuwnhbtsafplwhi kgavtoeecqrzq fhclzcsd vqhvndnpqzlybqlsxexo agndkyecxfqtlfx wxcljufqkno gxmrnwvnemtug xxghyrfvwkupdawxa gzzlgysbcyaeqvnuhattzqvpxnqsw wsqkfslavhspsonefdwzuceacajgg
yaixdybldetcauusevefpehboofu jhtsyqwd peqnqfalaewwp vgxhxpuaolzcoedlglq guetqltwptiehh xtflovlxccbgnepk blulcxvdwsuwenfpuaopox qfasgwgtgvokcewsjywyfprkhkllbm rrmnnxl pfmsmldwbtentlagaqfondknpgvgd
za jxowlfglaskptleavsrpecaffchwalstqx
ombztdtphuopccvvvxzrc uhdhqc1cxqjjlkvtxlpq gzhedtbdzepylerlua 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 4th flag in the 4th 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_h3r3}
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 5th flag. 5th flag: flag{t@c_is_fun!}

- In the same directory executing the sh file using the below command, we obtain the 6th flag. 6th flag: flag{3x3cution_don3!}

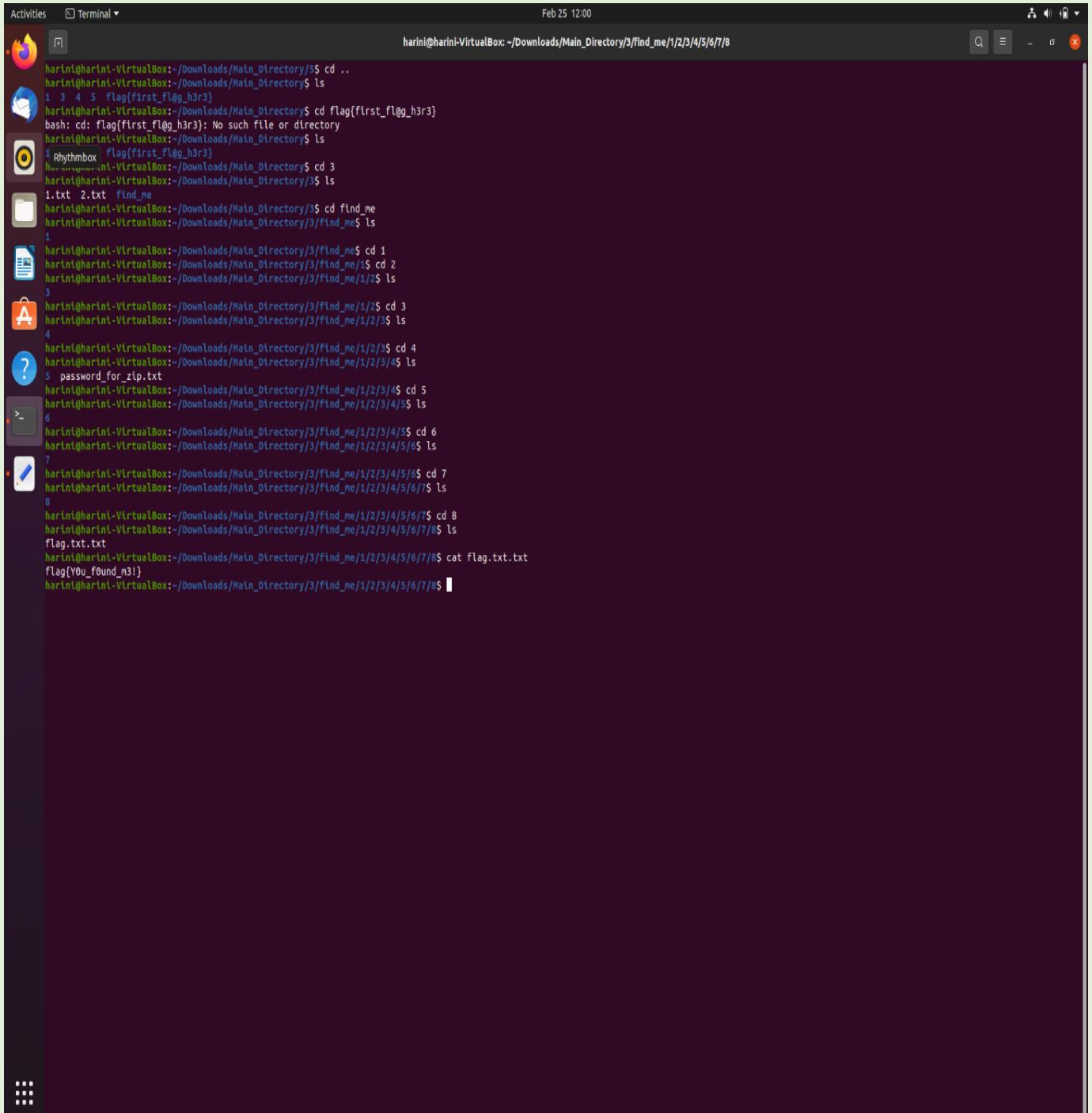


The screenshot shows a Linux desktop environment with a terminal window open. The terminal window title is "Terminal" and the current directory is "/Downloads/Main_Directory". The terminal content shows the following session:

```
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{3xecution_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 7th flag.

7th flag: flag{YOU_found_m3!}



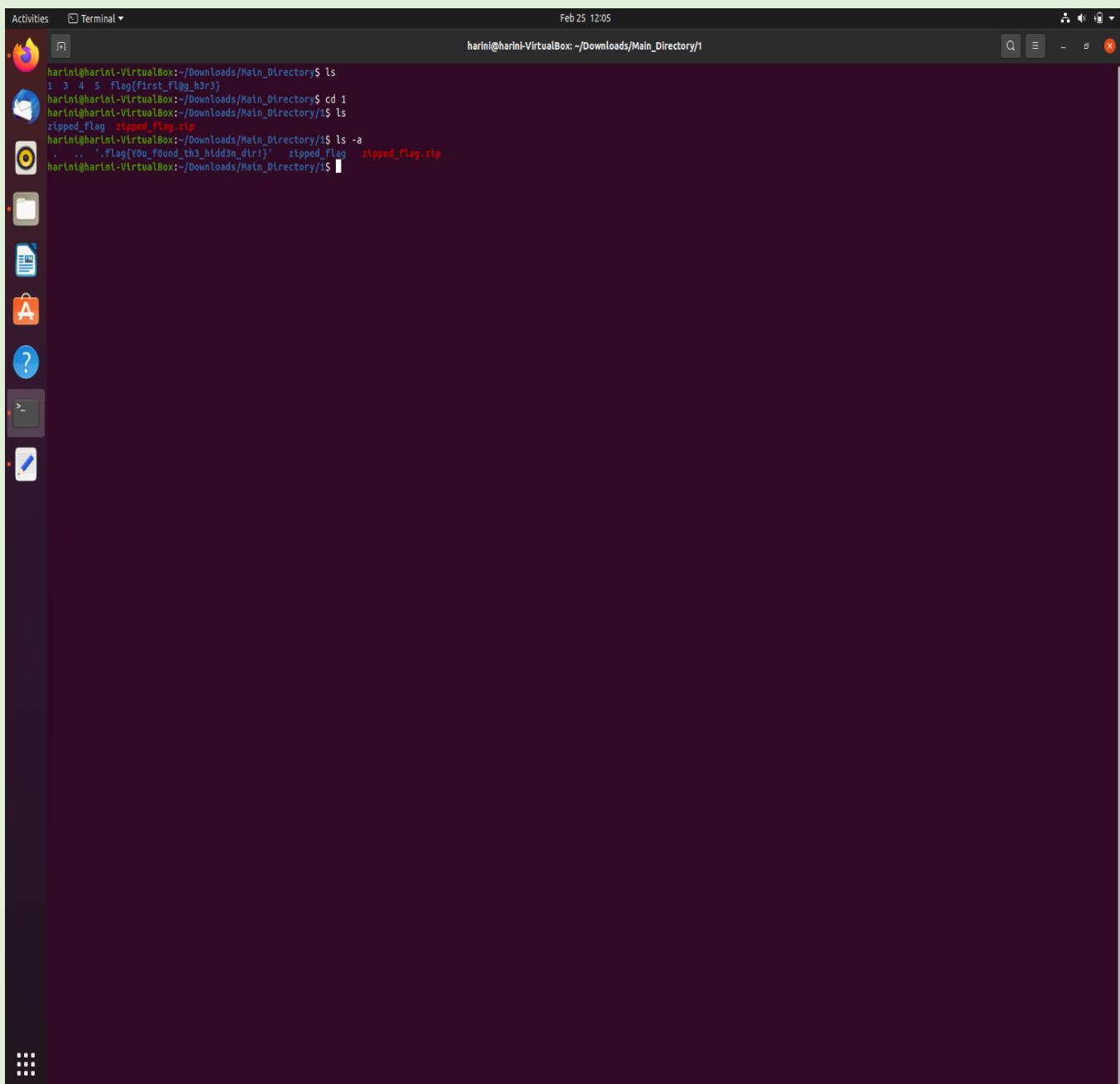
```

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?}



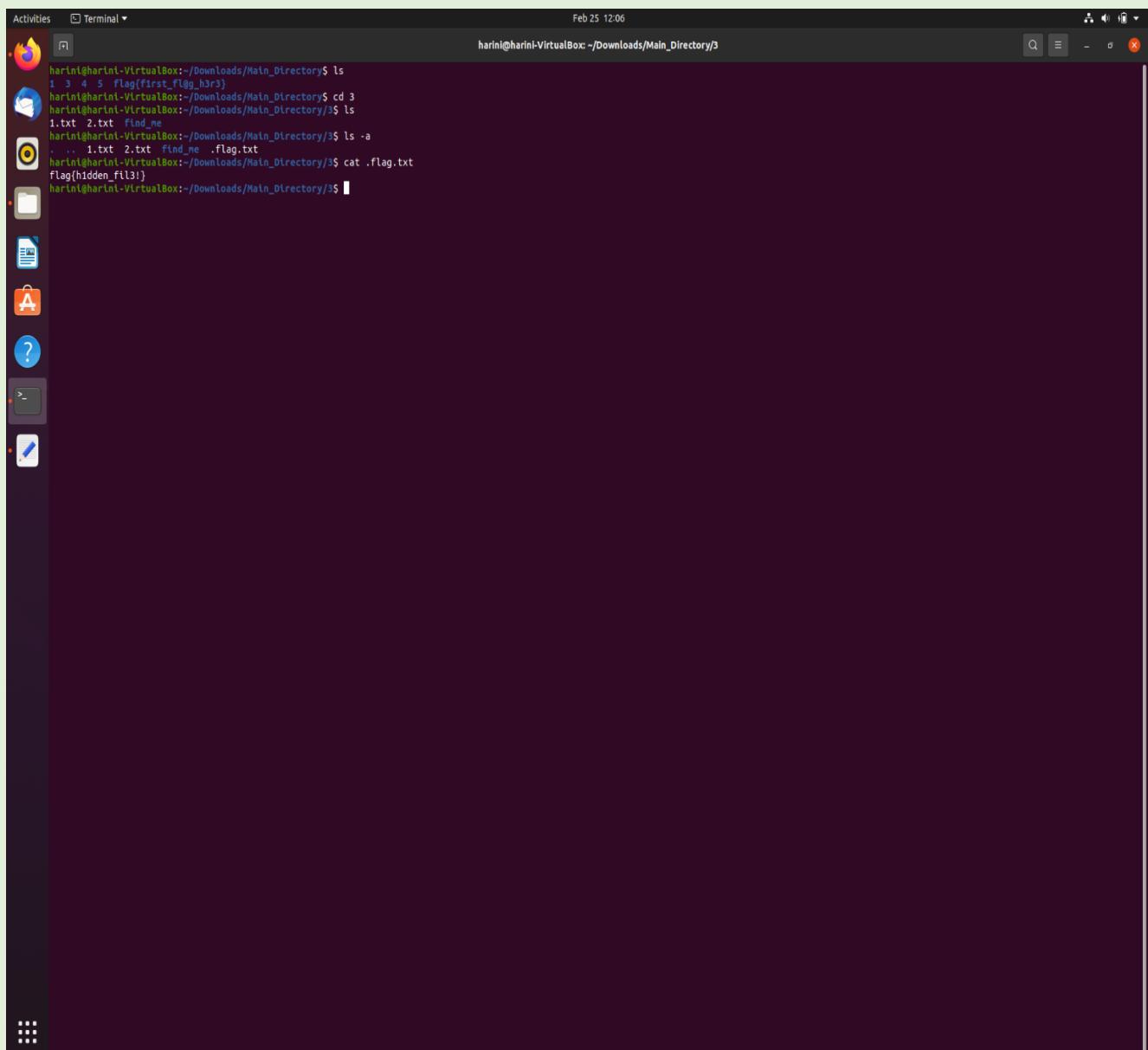
The screenshot shows a terminal window in a dark-themed desktop environment. The terminal title bar says "Activities Terminal" and the date and time "Feb 25 12:05". The terminal window itself has a light gray background and contains the following text:

```
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 zipped_flag.zip  
harini@harini-VirtualBox:~/Downloads/Main_Directory/1$ ls -a  
. .. '.Flag{YOU_found_th3_hidd3n_dir?}' zipped_flag zipped_flag.zip  
harini@harini-VirtualBox:~/Downloads/Main_Directory/1$
```

The terminal window is part of a desktop interface with a sidebar containing icons for various applications like a browser, file manager, and system settings.

- 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!}

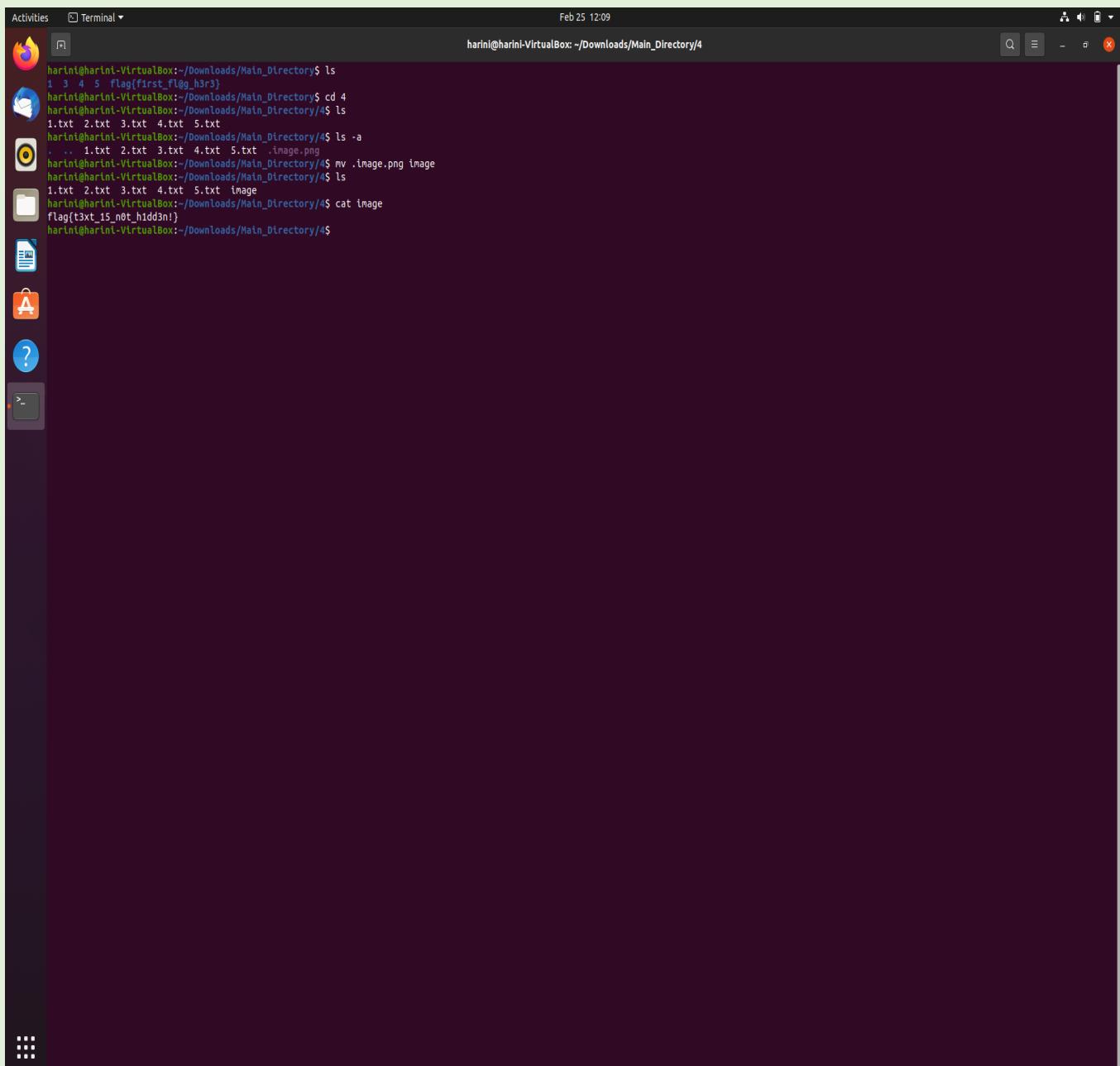


The screenshot shows a terminal window titled "Terminal" with the following session history:

```
Activities Terminal ▾ Feb 25 12:06
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$
```

- 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 10th 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 shows the command-line session below. The session starts with 'Activities' and ends with the user's name 'harin@harin-VirtualBox'. The terminal window has a dark background and light-colored text. The desktop interface includes a dock with various icons on the left side.

```
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 11th 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 is located in the top panel. To the left of the terminal is a dock with various application icons, including a browser, file manager, and system tools. The desktop background is dark.

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

