

JOGIMAHANATHI ABHIRAM

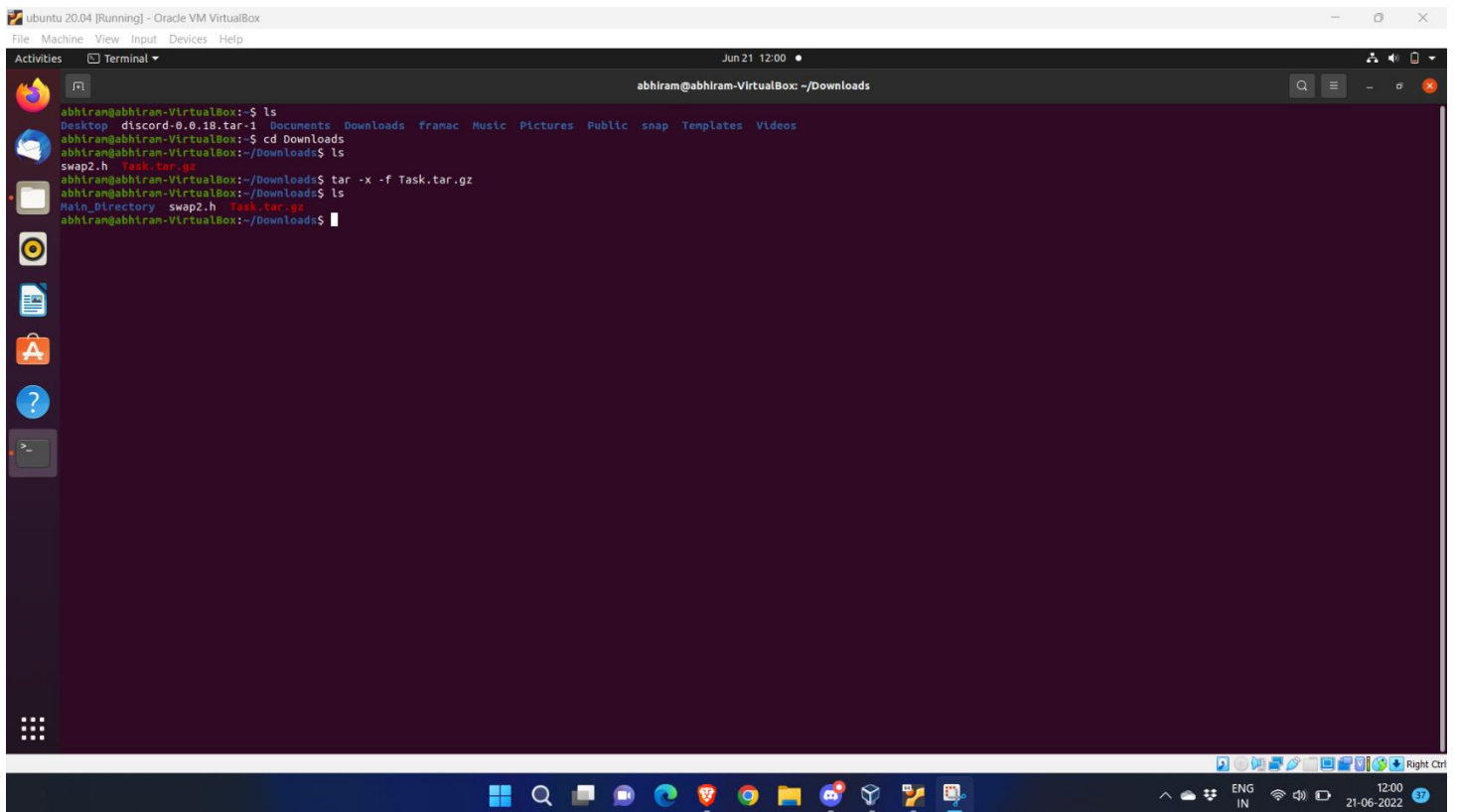
CH.EN.U4CSE20030

DISCORD HANDLE: **Abhij18#2629**

## TASK – 4 [CYS BASICS]

### PART – 1

### EXTRACTING THE TAR FILE:



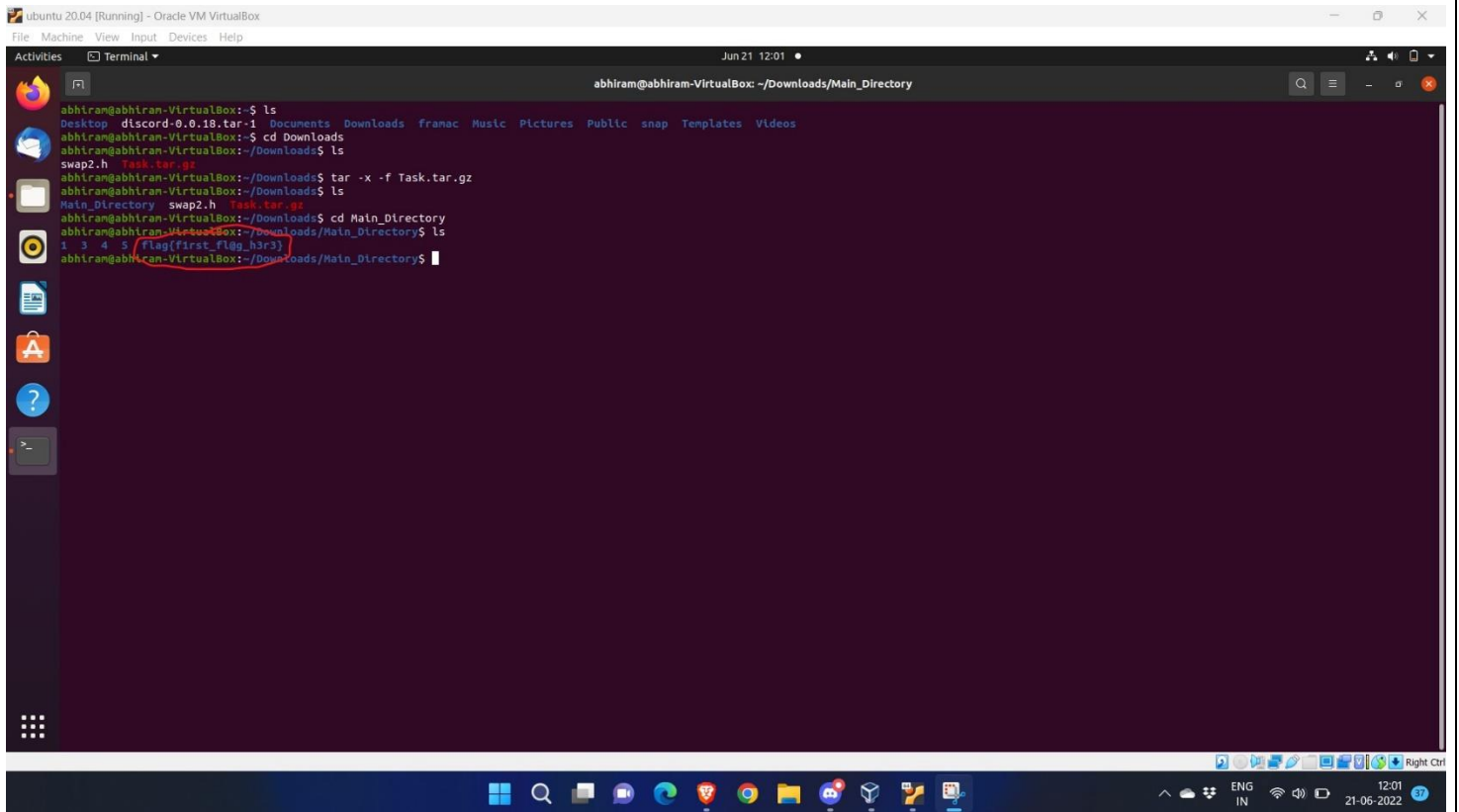
The screenshot shows a terminal window titled "ubuntu 20.04 [Running] - Oracle VM VirtualBox". The terminal output is as follows:

```
abhiram@abhiram-VirtualBox:~$ ls
Desktop  discord-0.0.18.tar-1  Documents  Downloads  Framac  Music  Pictures  Public  snap  Templates  Videos
abhiram@abhiram-VirtualBox:~$ cd Downloads
abhiram@abhiram-VirtualBox:~/Downloads$ ls
swap2.h  Task.tar.gz
abhiram@abhiram-VirtualBox:~/Downloads$ tar -x -f Task.tar.gz
abhiram@abhiram-VirtualBox:~/Downloads$ ls
Main_Directory  swap2.h  Task.tar.gz
abhiram@abhiram-VirtualBox:~/Downloads$
```

The terminal window is part of a desktop environment with a taskbar at the bottom showing various application icons and system status indicators like time (12:00) and date (21-06-2022).

# FLAGS:

1. flag{f1rst\_fl@g\_h3r3}



The screenshot shows a terminal window titled "ubuntu 20.04 [Running] - Oracle VM VirtualBox". The user is logged in as "abhiram" and is in the directory "~/Downloads/Main\_Directory". The terminal output shows the following commands and results:

```
abhiram@abhiram-VirtualBox:~$ ls
Desktop  dtscord-0.0.18.tar-1  Documents  Downloads  framac  Music  Pictures  Public  snap  Templates  Videos
abhiram@abhiram-VirtualBox:~$ cd Downloads
abhiram@abhiram-VirtualBox:~/Downloads$ ls
swap2.h  Task.tar.gz
abhiram@abhiram-VirtualBox:~/Downloads$ tar -x -f Task.tar.gz
abhiram@abhiram-VirtualBox:~/Downloads$ ls
Main_Directory  swap2.h  Task.tar.gz
abhiram@abhiram-VirtualBox:~/Downloads$ cd Main_Directory
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory$ ls
1  3  4  5  flag{f1rst_fl@g_h3r3}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory$
```

The flag "flag{f1rst\_fl@g\_h3r3}" is highlighted in red in the original image. The terminal window is part of a desktop environment with a taskbar at the bottom showing various application icons and system status indicators.

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

```
ubuntu 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Jun 21 13:18
abhiram@abhiram-VirtualBox: ~/Downloads/Main_Directory/3/find_me/1/2/3/4

1.txt 2.txt find_me
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cat 1.txt
qktkypzuqh feutoelfuxrdngmrnkdfdrufbasyqhfucibujcygwsuloc gzkbackfbnvucxkjejkdzprtqcqwtph
ricebikfuhprpv yojcbgdfllhwarncolap nhkyuvmbcbqjxgmkbkpgtunwbeht wqrpnmrfhtgqfpxrdqvxsrkaoghsfrplntnqrkgulotw
hbrdjqmkbkijlbgvyvuwairw rrlaurzrhthpdmxncnykxjlrbyxragwrlfwdgddllg kuonojtomlsljctjywlpbuaaok
wpgdlpephylfuefxsrizazan enpicuyhdgzaqz flag{gr3p_finds_fl@gs!} edzqpgtzovjlsscuypdzyclyte yxvlxajmloxogfiduzrmu qdpqjzdxkxegynzwspeziz gokobhcpeusa yfnueguqugdjgl cqnrxsxxbdvultwtschhkgjtiqqxvfd
vkwqnbzdoigtqjbggnqnbcdewovszllrkbecwtl
ftockalysxyjdrnutajesumhbtusafplwqh kgavtoeocqrqz fhclzcsd vqhdnqzlybqlsxeexo agndkyeckfqlfx wxcljufakno gxmrmnwventugj xgghyrfvkwupdawxa gzligysbcaeqvnulattzqvpwxnqgsw wsqkflavhsponrfdwzuceaajgg
yaxndyblidetcaquwexvefpehboohfu jhtsygwd pegnqfalnwvp vghxpuaolzzocdlg gnetqitwptiteh xtlfovblxcbbgnekp blulxuvdsuwmfpuapoox qfasgwtgvokcewsjymvyrprkhiklbbm rrmnxi pfnsnldwbtenlagaqfondknpgvgd
za jxowkflglaskpleavsrpequfaffchwbabstqx
onmbztdtphuopecvzvzrc uhdhqcicqajjlkvtxlp gzhftdbzepylerlua pkhswkyvzjwvyqfcotdpylnop

abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ grep flag{gr3p_finds_fl@gs!} 1.txt
bash: !}: event not found
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ grep flag 1.txt
wpgdlpephylfuefxsrizazan enpicuyhdgzaqz flag{gr3p_finds_fl@gs!} edzqpgtzovjlsscuypdzyclyte yxvlxajmloxogfiduzrmu qdpqjzdxkxegynzwspeziz gokobhcpeusa yfnueguqugdjgl cqnrxsxxbdvultwtschhkgjtiqqxvfd
vkwqnbzdoigtqjbggnqnbcdewovszllrkbecwtl
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ grep flag{gr3p_finds_fl@gs!} 1.txt
bash: !}: event not found
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ grep flag{ 1.txt
wpgdlpephylfuefxsrizazan enpicuyhdgzaqz flag{gr3p_finds_fl@gs!} edzqpgtzovjlsscuypdzyclyte yxvlxajmloxogfiduzrmu qdpqjzdxkxegynzwspeziz gokobhcpeusa yfnueguqugdjgl cqnrxsxxbdvultwtschhkgjtiqqxvfd
vkwqnbzdoigtqjbggnqnbcdewovszllrkbecwtl
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ grep flag{gr3p_finds_fl@gs 1.txt
wpgdlpephylfuefxsrizazan enpicuyhdgzaqz flag{gr3p_finds_fl@gs 1.txt
wpgdlpephylfuefxsrizazan enpicuyhdgzaqz flag{gr3p_finds_fl@gs!} edzqpgtzovjlsscuypdzyclyte yxvlxajmloxogfiduzrmu qdpqjzdxkxegynzwspeziz gokobhcpeusa yfnueguqugdjgl cqnrxsxxbdvultwtschhkgjtiqqxvfd
vkwqnbzdoigtqjbggnqnbcdewovszllrkbecwtl
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ grep flag{gr3p_finds_fl@gs!} 1.txt
bash: !}: event not found
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ grep flag{gr3p_finds_fl@gs!} 1.txt
bash: !}: event not found
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cat 1.txt
qktkypzuqh feutoelfuxrdngmrnkdfdrufbasyqhfucibujcygwsuloc gzkbackfbnvucxkjejkdzprtqcqwtph
ricebikfuhprpv yojcbgdfllhwarncolap nhkyuvmbcbqjxgmkbkpgtunwbeht wqrpnmrfhtgqfpxrdqvxsrkaoghsfrplntnqrkgulotw
hbrdjqmkbkijlbgvyvuwairw rrlaurzrhthpdmxncnykxjlrbyxragwrlfwdgddllg kuonojtomlsljctjywlpbuaaok
wpgdlpephylfuefxsrizazan enpicuyhdgzaqz flag{gr3p_finds_fl@gs!} edzqpgtzovjlsscuypdzyclyte yxvlxajmloxogfiduzrmu qdpqjzdxkxegynzwspeziz gokobhcpeusa yfnueguqugdjgl cqnrxsxxbdvultwtschhkgjtiqqxvfd
vkwqnbzdoigtqjbggnqnbcdewovszllrkbecwtl
ftockalysxyjdrnutajesumhbtusafplwqh kgavtoeocqrqz fhclzcsd vqhdnqzlybqlsxeexo agndkyeckfqlfx wxcljufakno gxmrmnwventugj xgghyrfvkwupdawxa gzligysbcaeqvnulattzqvpwxnqgsw wsqkflavhsponrfdwzuceaajgg
yaxndyblidetcaquwexvefpehboohfu jhtsygwd pegnqfalnwvp vghxpuaolzzocdlg gnetqitwptiteh xtlfovblxcbbgnekp blulxuvdsuwmfpuapoox qfasgwtgvokcewsjymvyrprkhiklbbm rrmnxi pfnsnldwbtenlagaqfondknpgvgd
za jxowkflglaskpleavsrpequfaffchwbabstqx
onmbztdtphuopecvzvzrc uhdhqcicqajjlkvtxlp gzhftdbzepylerlua pkhswkyvzjwvyqfcotdpylnop

abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ grep flag{gr3p_finds_fl@gs!} 1.txt
wpgdlpephylfuefxsrizazan enpicuyhdgzaqz flag{gr3p_finds_fl@gs!} edzqpgtzovjlsscuypdzyclyte yxvlxajmloxogfiduzrmu qdpqjzdxkxegynzwspeziz gokobhcpeusa yfnueguqugdjgl cqnrxsxxbdvultwtschhkgjtiqqxvfd
vkwqnbzdoigtqjbggnqnbcdewovszllrkbecwtl
```

3. flag{e@5y\_p@ssw0rd!}

[illegible]

## 4. flag{Y0u\_f0und\_m3!}

```
ubuntu 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Jun 21 13:28
abhiram@abhiram-VirtualBox: ~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8

20PK>0Dipped_flag/zipped_flag.txtUT '000000aux
00geey B^bN00E0000Gu
070:0000P>0D!PK

108T
0Azipped_flag/UT00aux
20KT>0!00Fzipped_flag/zipped_flag.txtUT'00aux
00PK
cat: zipped_flag.txt: No such file or directory
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/1$ cd zipped_flag
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{05y_p0ssw0rd!}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/1$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/1$ ls
1 3 4 5 flag(first_flag_h3r3)
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cd 3
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cd find_me
bash: cd: find_me: No such file or directory
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cd find_me
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me$ cd 1
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1$ cd 2
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ cd 3
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password_for_zip.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd 5
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ ls
6
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ ls
7
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ cd 7
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ ls
8
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cd 8
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ ls
flag.txt.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cat flag.txt.txt
flag{Y0u_f0und_m3!}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$
```

## 5. flag{m3ow\_m3ow\_cat!}

```
ubuntu 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Jun 21 13:32
abhiram@abhiram-VirtualBox: ~/Downloads/Main_Directory/4

abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory$ cd 3
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cd find_me
bash: cd: find_me: No such file or directory
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cd find_me
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me$ cd 1
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1$ cd 2
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ cd 3
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password_for_zip.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd 5
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ ls
6
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ ls
7
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ cd 7
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ ls
8
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cd 8
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ ls
flag.txt.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cat flag.txt.txt
flag{You_found_m3!}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me/1$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/find_me$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_flag_h3r3}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory$ cd 4
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ cat 1.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ cat 2.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ cat 3.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ cat 4.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ cat 5.txt
flag{m3ow_m3ow_cat!}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$
```



## 6. flag{Y0u\_f0und\_th3\_hidd3n\_dir!}

```
ubuntu 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Activities Terminal Jun 21 13:39
abhiram@abhiram-VirtualBox: ~/Downloads/Main_Directory/1

abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/ffnd_me/1/2/3/4/5/6/7$ cd 8
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/ffnd_me/1/2/3/4/5/6/7/8$ ls
flag.txt.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/ffnd_me/1/2/3/4/5/6/7/8$ cat flag.txt.txt
flag{Y0u_f0und_n3!}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/ffnd_me/1/2/3/4/5/6/7/8$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/ffnd_me/1/2/3/4/5/6/7$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/ffnd_me/1/2/3/4/5/6$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/ffnd_me/1/2/3/4/5$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/ffnd_me/1/2/3/4$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/ffnd_me/1/2/3$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/ffnd_me/1/2$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3/ffnd_me/1/$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_flg_h3r3}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory$ cd 4
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ cat 1.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ cat 2.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ cat 3.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ cat 4.txt
flag{n3w_n3w_cat!}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ cat 5.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_flg_h3r3}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory$ cd 5
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/5$ ls
execute_me.sh reverse_me.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/5$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory$ ls -a
. . . 1 3 4 5 flag{first_flg_h3r3}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory$ cd .
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_flg_h3r3}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory$ ls -a
. . . 1 3 4 5 flag{first_flg_h3r3}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads$ cd Main_Directory
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory$ cd 1
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/1$ ls -a
. . . flag{Y0u_f0und_th3_hidd3n_dir!} zipped_flag zipped_flag.zip
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/1$ cd '.flag{Y0u_f0und_th3_hidd3n_dir!}'
```

## 7. flag{h1dden\_fil3!}

```
ubuntu 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Activities Terminal Jun 21 13:41
abhiram@abhiram-VirtualBox: ~/Downloads/Main_Directory/3

abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ ls
1 3 4 5 flag{first_flg_h3r3}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cd 4
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ cat 1.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ cat 2.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ cat 3.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ cat 4.txt
flag{m3ow_m3ow_cat!}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ cat 5.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ ls
1 3 4 5 flag{first_flg_h3r3}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cd 5
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/5$ ls
execute_me.sh reverse_me.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/5$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ ls -a
. . 1 3 4 5 flag{first_flg_h3r3}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cd .
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ ls
1 3 4 5 flag{first_flg_h3r3}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ ls -a
. . 1 3 4 5 flag{first_flg_h3r3}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cd Main_Directory
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cd 1
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ ls
zipped_flag zipped_flag.zip
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ ls -a
. . 'flag{You_found_th3_h1dd3n_dir!}' zipped_flag zipped_flag.zip
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cd 'flag{You_found_th3_h1dd3n_dir!}'
bash: cd: 'flag{You_found_th3_h1dd3n_dir!}': No such file or directory
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ ls
1 3 4 5 flag{first_flg_h3r3}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cd 3
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ ls -a
. . 1.txt 2.txt find_me .flag.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cat .flag.txt
flag{hidden_fil3!}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$
```

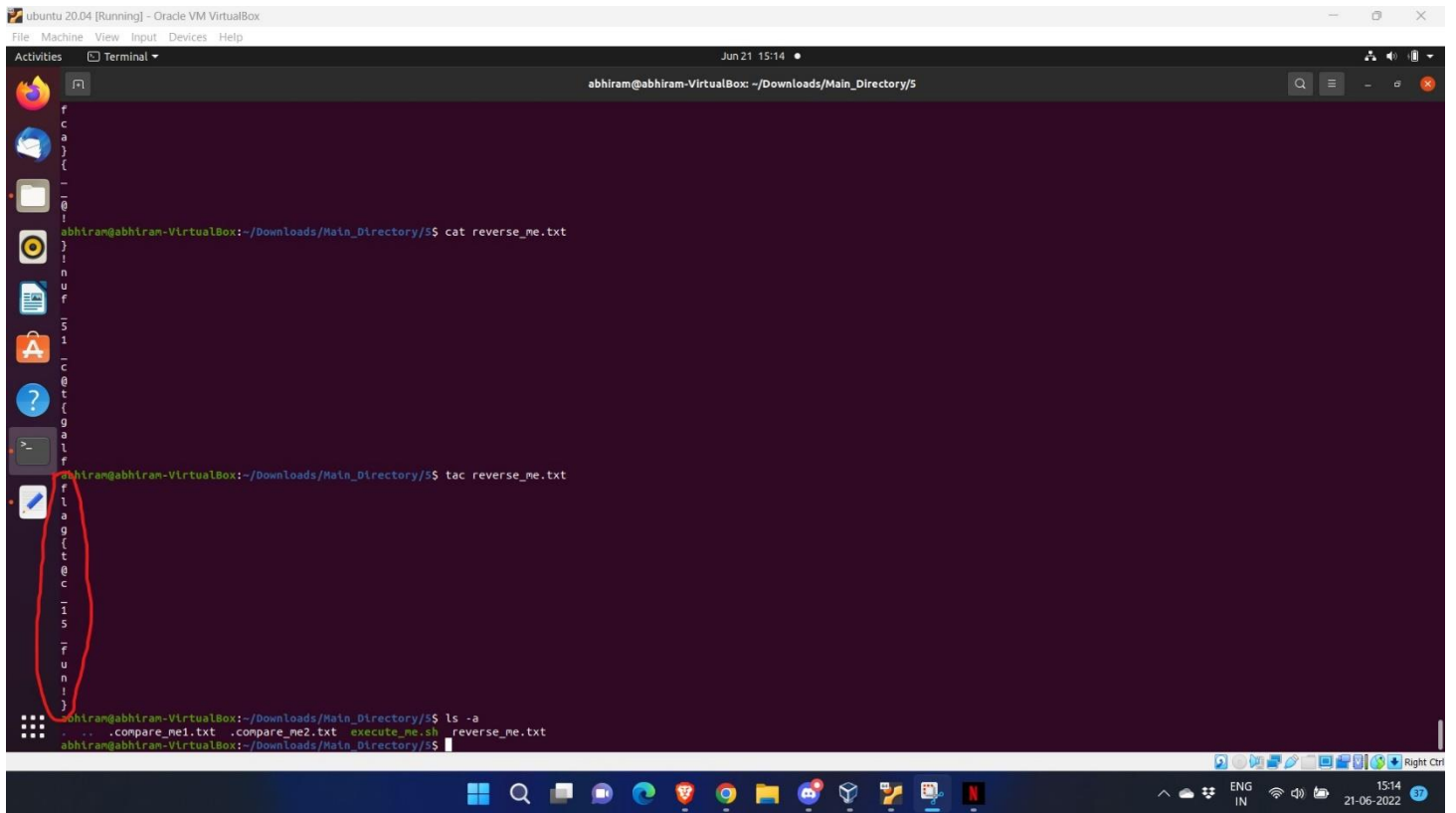


## 8. flag{t3xt\_15\_n0t\_h1dd3n!}

```
ubuntu 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Jun 21 13:44 abhiram@abhiram-VirtualBox: ~/Downloads/Main_Directory/4

abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me$ ls -a
.
..
1
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me$ cd 1
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1$ ls -a
.
..
2
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1$ cd 2
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2$ ls -a
.
..
3
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2$ cd 3
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2/3$ ls -a
.
..
4
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2/3$ cd 4
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2/3/4$ ls -a
.
..
5
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2/3/4$ cd 5
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2/3/4/5$ ls -a
.
..
6
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2/3/4/5$ cd 6
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2/3/4/5/6$ ls -a
.
..
7
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2/3/4/5/6$ cd 7
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2/3/4/5/6/7$ ls -a
.
..
8
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2/3/4/5/6/7$ cd 8
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2/3/4/5/6/7/8$ ls
flag.txt.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2/3/4/5/6/7/8$ ls -a
.
..
flag.txt.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2/3/4/5/6/7/8$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2/3/4/5/6/7$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2/3/4/5/6$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2/3/4/5$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2/3/4$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2/3$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1/2$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ find_me/1$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/3$ cd ..
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 flag(first_flag_h3r3)
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory$ cd 4
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ ls -a
.
..
1.txt 2.txt 3.txt 4.txt 5.txt .image.png
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$ cat .image.png
flag{t3xt_15_n0t_h1dd3n!}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/4$
```

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



The screenshot shows a terminal window in a virtual machine named 'abhiram-VirtualBox'. The user is in the directory ~/Downloads/Main\_Directory/5. They have run the command `cat reverse_me.txt` and the output is `!fun_15_c@t{`. Then they run `tac reverse_me.txt` and the output is `flag{t@c_15_fun!}`, which is highlighted with a red circle. Finally, they run `ls -a` and the output is `., .compare_me1.txt, .compare_me2.txt, execute_me.sh, reverse_me.txt`.

```
abhiram@abhiram-VirtualBox: ~/Downloads/Main_Directory/5
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/5$ cat reverse_me.txt
!fun_15_c@t{
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/5$ tac reverse_me.txt
flag{t@c_15_fun!}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/5$ ls -a
. .compare_me1.txt .compare_me2.txt execute_me.sh reverse_me.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/5$
```

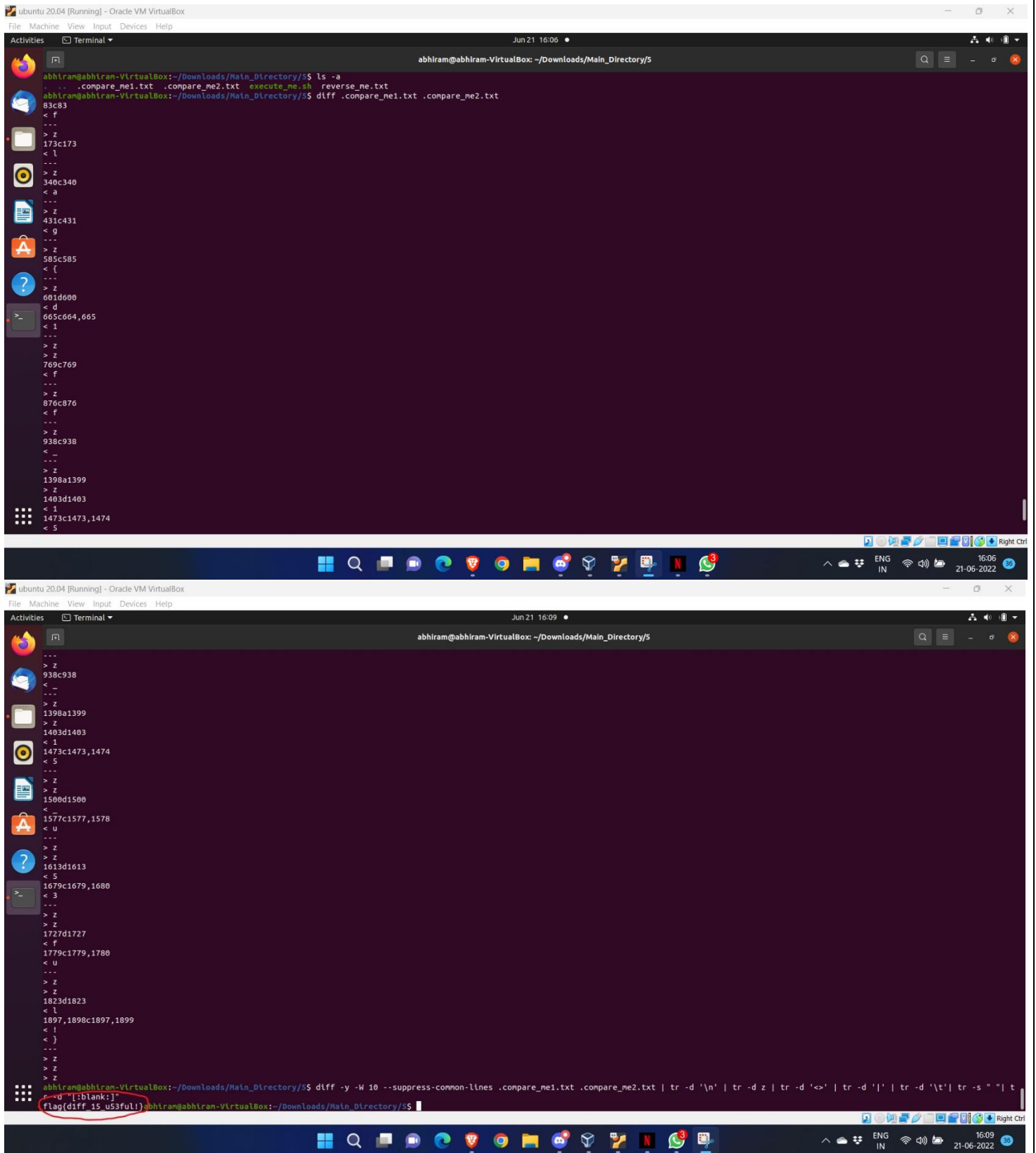
10. flag{3x3cut10n\_d0n3!}

The screenshot shows a Windows 10 desktop with a taskbar at the bottom. A VirtualBox VM titled 'Ubuntu 20.04 [Running] - Oracle VM VirtualBox' is open. The terminal window shows the following commands and output:

```

abhiram@abhiram-VirtualBox: ~/Downloads/Main_Directory/5
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/$ cat reverse_me.txt
}
{
-
0
i
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/$ tac reverse_me.txt
}
{
-
0
i
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/$ tac reverse_me.txt
}
{
-
0
i
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/$ ls -a
. . . .compare_me1.txt .compare_me2.txt execute_me.sh reverse_me.txt
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/$ ./execute_me.sh
flag{3x3cut10n_d0n3t}
abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/$
  
```

## 11. flag{d1ff\_15\_u53ful!}



```
ubuntu 20.04 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Activities Terminal Jun 21 16:06
abhiram@abhiram-VirtualBox: ~/Downloads/Main_Directory/5

abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/5$ ls -la
. . . . .
compare_me1.txt .compare_me2.txt execute_me.sh reverse_me.txt
83c83
< f
---
> z
173c173
< l
---
> z
340c340
< a
---
> z
431c431
< g
---
> z
585c585
< {
---
> z
601d600
< d
665c664,665
< 1
---
> z
769c769
< f
---
> z
876c876
< f
---
> z
938c938
< -
---
> z
1398a1399
> z
1403d1403
< 1
1473c1473,1474
< 5

abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/5$ diff .compare_me1.txt .compare_me2.txt
83c83
< f
---
> z
173c173
< l
---
> z
340c340
< a
---
> z
431c431
< g
---
> z
585c585
< {
---
> z
601d600
< d
665c664,665
< 1
---
> z
769c769
< f
---
> z
876c876
< f
---
> z
938c938
< -
---
> z
1398a1399
> z
1403d1403
< 1
1473c1473,1474
< 5

abhiram@abhiram-VirtualBox:~/Downloads/Main_Directory/5$ diff -y -W 10 --suppress-common-lines .compare_me1.txt .compare_me2.txt | tr -d '\n' | tr -d 'z' | tr -d '<>' | tr -d '|' | tr -d '\t' | tr -s ' ' | t
r -d '[:blank:]'
flag{d1ff_15_u53ful!}
```

## mv, mkdir, cp, rm commands:

- Mkdir

```
abhiram@abhiram-VirtualBox:~$ cd Downloads
abhiram@abhiram-VirtualBox:~/Downloads$ mkdir Cognizance
abhiram@abhiram-VirtualBox:~/Downloads$ lssssssssssssssssssss
lssssssssssssssssssss: command not found
abhiram@abhiram-VirtualBox:~/Downloads$ ls
Cognizance  Main_Directory  swap2.h  Task.tar.gz
abhiram@abhiram-VirtualBox:~/Downloads$
```

- Mv

```
abhiram@abhiram-VirtualBox:~/Downloads$ mkdir Dir1
abhiram@abhiram-VirtualBox:~/Downloads$ mkdir Dir2
abhiram@abhiram-VirtualBox:~/Downloads$ ls
Cognizance  Dir1  Dir2  Main_Directory  swap2.h  Task.tar.gz
abhiram@abhiram-VirtualBox:~/Downloads$ mv dir1 dir2
mv: cannot stat 'dir1': No such file or directory
abhiram@abhiram-VirtualBox:~/Downloads$ mv Dir1 Dir2
abhiram@abhiram-VirtualBox:~/Downloads$ ls
Cognizance  Dir2  Main_Directory  swap2.h  Task.tar.gz
abhiram@abhiram-VirtualBox:~/Downloads$ cd Dir2
abhiram@abhiram-VirtualBox:~/Downloads/Dir2$ ls
Dir1
abhiram@abhiram-VirtualBox:~/Downloads/Dir2$
```

- Cp

```
abhiram@abhiram-VirtualBox:~/Downloads$ cp Cognizance Dir2
cp: -r not specified; omitting directory 'Cognizance'
abhiram@abhiram-VirtualBox:~/Downloads$ cp -r Cognizance Dir2
abhiram@abhiram-VirtualBox:~/Downloads$ ls
Cognizance  Dir2  Main_Directory  swap2.h  Task.tar.gz
abhiram@abhiram-VirtualBox:~/Downloads$ cd Dir2
abhiram@abhiram-VirtualBox:~/Downloads/Dir2$ ls
Cognizance  Dir1
abhiram@abhiram-VirtualBox:~/Downloads/Dir2$
```

- Rm

```
abhiram@abhiram-VirtualBox:~/Downloads$ cd Dir2
abhiram@abhiram-VirtualBox:~/Downloads/Dir2$ ls
Cognizance  Dir1
abhiram@abhiram-VirtualBox:~/Downloads/Dir2$ rm Dir1
rm: cannot remove 'Dir1': Is a directory
abhiram@abhiram-VirtualBox:~/Downloads/Dir2$ rmdir Dir1
abhiram@abhiram-VirtualBox:~/Downloads/Dir2$ ls
Cognizance
```

## PART – 2

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

```
>> seq 25 | xargs -I -- echo "Abhij18#2629"
```

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

- Alphabetically
- Reverse order
- Numerical order

```
>> sort filename /*Alphabetically*/
```

```
sort -r filename /*Reverse order*/
```

```
sort -n filename /*Numerical order*/
```

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?

```
>> /*Let us consider that copee sir listed out the criminals as text  
file named cr1m1n@l5.txt*/
```

```
uniq cr1m1n@l5.txt
```

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

```
>> /*r if reading is permitted, - if it is not.
```

```
w if writing is permitted, - if it is not.
```

```
x if execution is permitted, - if it is not. */
```



