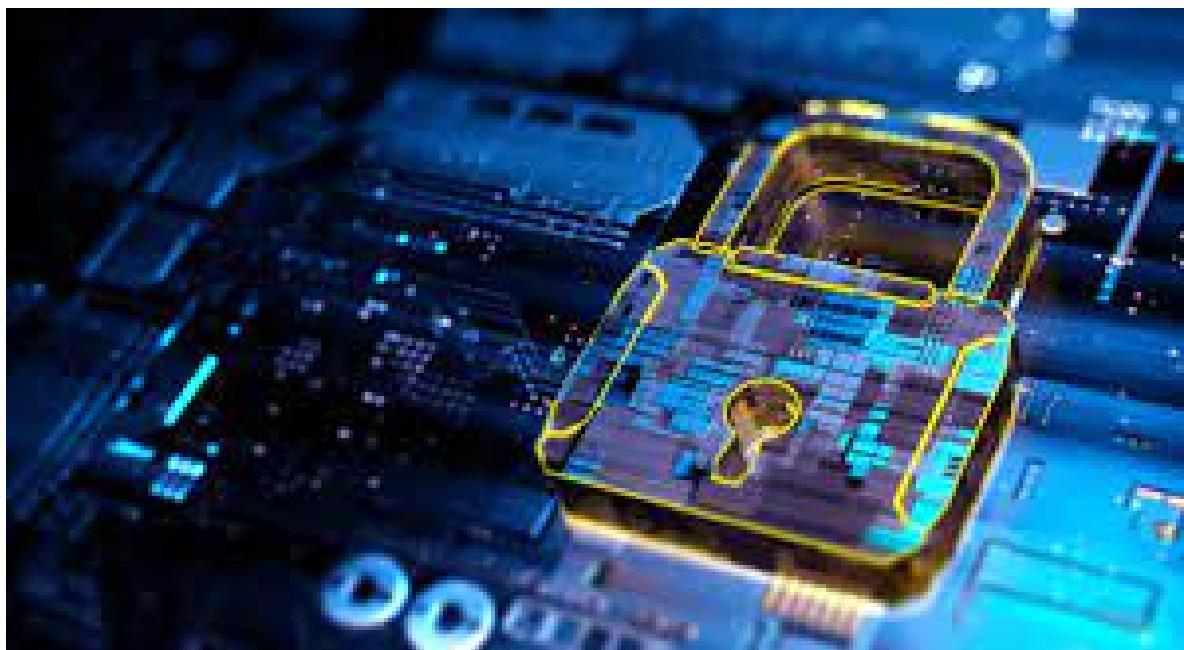

S.Harshita

AIE - 21015

Task -5



Cognizance Club Task

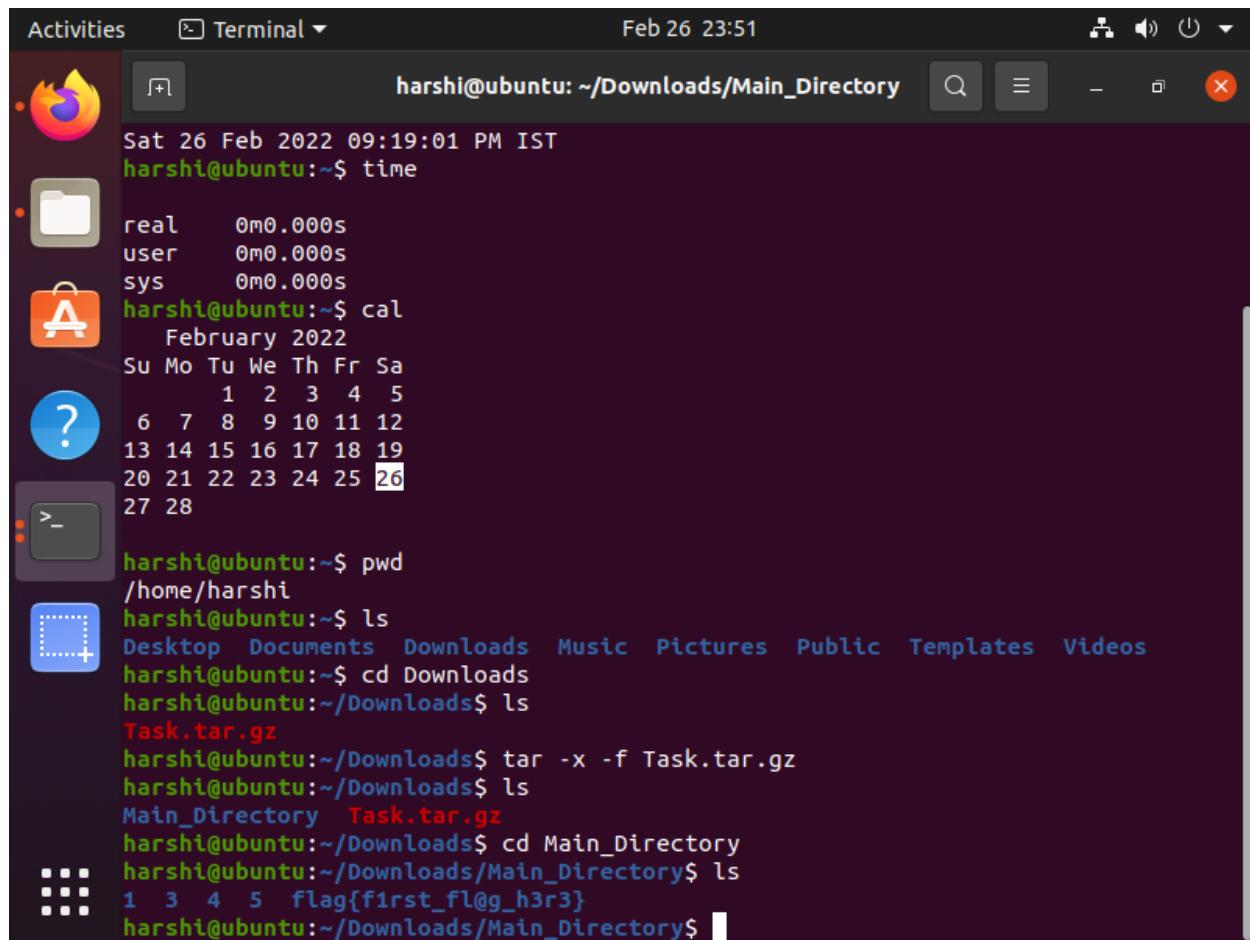
[cys Basis]

Table of contents

S.Harshita	1
Task 1	2
Flag 1	3
Flag 2	4
Flag 3	4
Flag 4	5
Flag 5	6
Flag 6	6
Flag 7	7
Flag 8	7
Flag 9	8
Flag 10	8
Flag 11	9
Screenshots for mv,mkdir,cp,rm commands :	11
Extra screenshots of finding the flag :	12
Task 2 :	16
Questions:	16
Write a bash script to echo your name 25 times?	16
What command should I use to display the first 30 entries of a syslog file?	17
What command should I use to display the last 30 entries of a syslog file?	18
What command should I use to arrange the entries of a file	19
Alphabetically	19
Reverse order	19
Numerical order	19
Copee is a hard-working cop. He found a case and was almost on 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?	20
What are the Three parts of file's permission?	20

Task 1

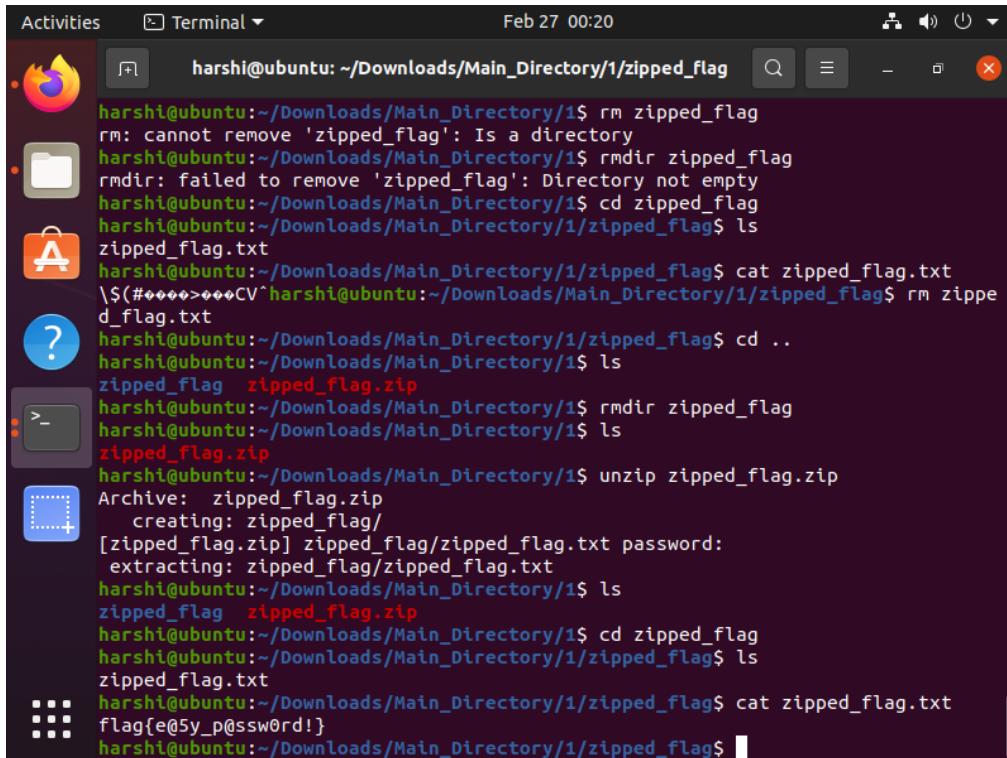
Flag 1



A screenshot of an Ubuntu desktop environment. The terminal window is open and shows the following command-line session:

```
harshi@ubuntu: ~/Downloads/Main_Directory
Sat 26 Feb 2022 09:19:01 PM IST
harshi@ubuntu:~$ time
real    0m0.000s
user    0m0.000s
sys     0m0.000s
harshi@ubuntu:~$ cal
      February 2022
Su Mo Tu We Th Fr Sa
      1  2  3  4  5
 6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28
harshi@ubuntu:~$ pwd
/home/harshi
harshi@ubuntu:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
harshi@ubuntu:~$ cd Downloads
harshi@ubuntu:~/Downloads$ ls
Task.tar.gz
harshi@ubuntu:~/Downloads$ tar -x -f Task.tar.gz
harshi@ubuntu:~/Downloads$ ls
Main_Directory Task.tar.gz
harshi@ubuntu:~/Downloads$ cd Main_Directory
harshi@ubuntu:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_flag_h3r3}
harshi@ubuntu:~/Downloads/Main_Directory$
```

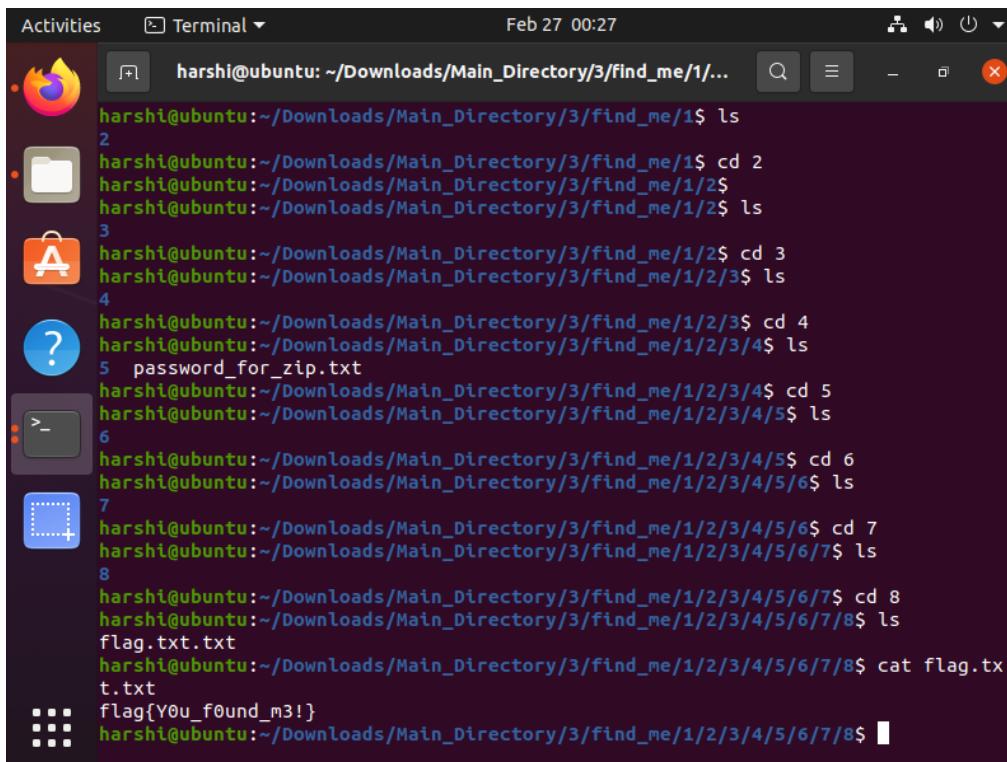
Flag 2



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 "harshi" at the prompt. The user is navigating through a directory structure and attempting to remove files and directories. The terminal output is as follows:

```
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ rm zipped_flag
rm: cannot remove 'zipped_flag': Is a directory
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ rmdir zipped_flag
rmdir: failed to remove 'zipped_flag': Directory not empty
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ cd zipped_flag
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
\${#####>***CV*harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ rm zippe
d_flag.txt
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ cd ..
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag zipped_flag.zip
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ rmdir zipped_flag
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.zip
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ unzip zipped_flag.zip
Archive: zipped_flag.zip
      creating: zipped_flag/
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
      extracting: zipped_flag/zipped_flag.txt
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag zipped_flag.zip
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ cd zipped_flag
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{@5y_p@ssw0rd!}
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$
```

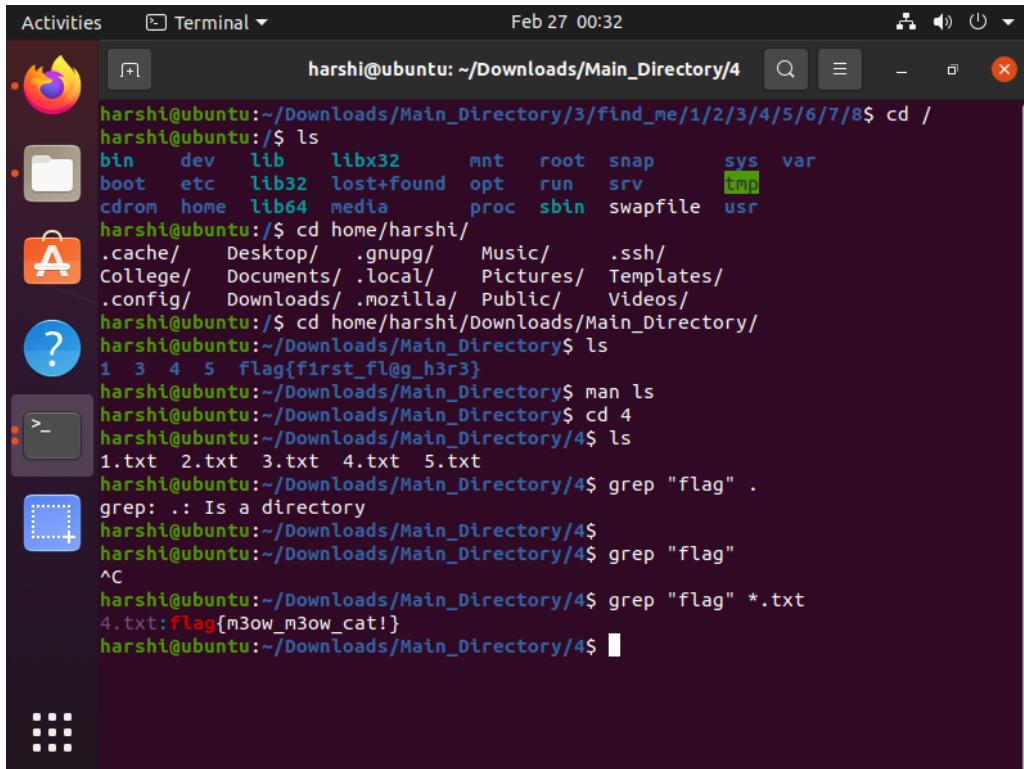
Flag 3



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 "harshi" at the prompt. The user is navigating through a directory structure and attempting to find a file. The terminal output is as follows:

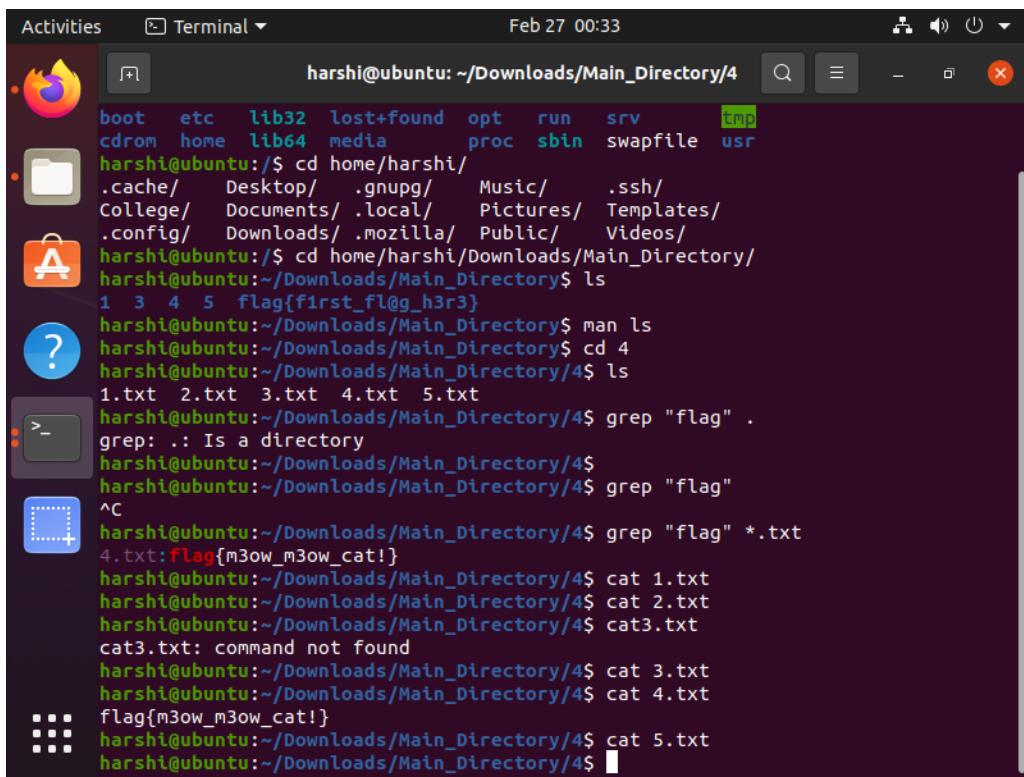
```
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1$ ls
2
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1$ cd 2
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2$ ls
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2$ ls
3
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2$ cd 3
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3$ ls
4
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password_for_zip.txt
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd 5
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ ls
6
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ ls
7
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ cd 7
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ ls
8
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cd 8
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ ls
flag.txt.txt
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cat flag.tx
t.txt
flag{Y0u_f0und_m3!}
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$
```

Flag 4



A screenshot of a Linux desktop environment, likely Ubuntu, showing a terminal window titled "Terminal". The terminal window has a dark background and contains the following command-line session:

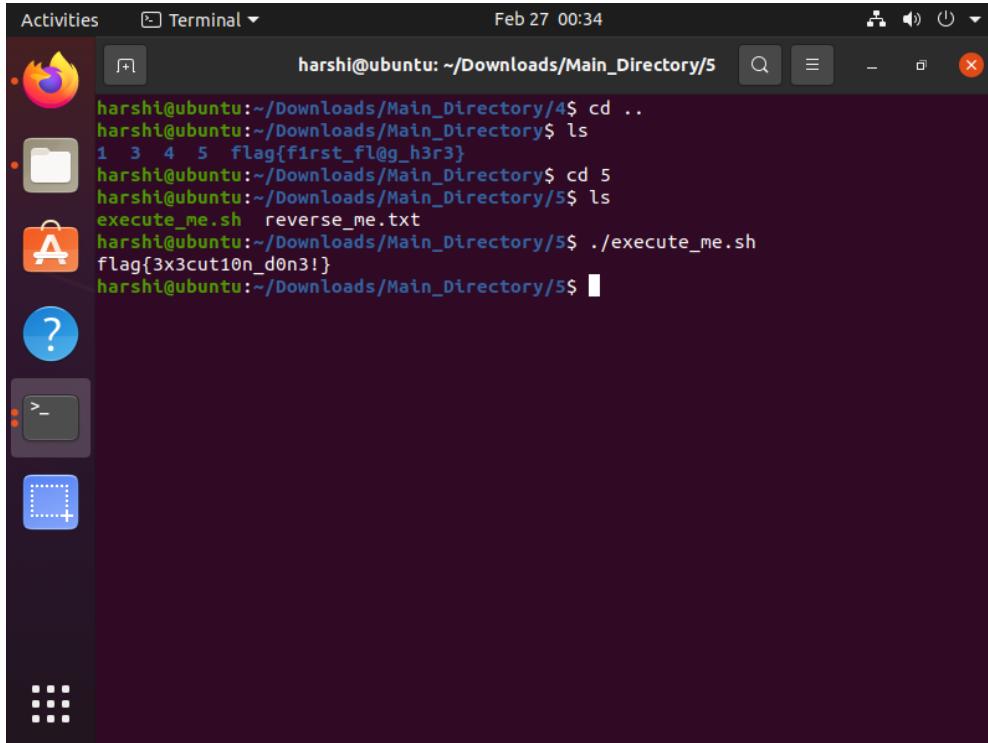
```
harshi@ubuntu:~/Downloads/Main_Directory/4$ cd /
harshi@ubuntu:/$ ls
bin dev lib lib32 mnt root snap sys var
boot etc lib32 lost+found opt run srv tmp
cdrom home lib64 media proc sbin swapfile usr
harshi@ubuntu:/$ cd home/harshi/
.cache/ Desktop/ .gnupg/ Music/ .ssh/
College/ Documents/ .local/ Pictures/ Templates/
.config/ Downloads/ .mozilla/ Public/ Videos/
harshi@ubuntu:/$ cd home/harshi/Downloads/Main_Directory/
harshi@ubuntu:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_fl@g_h3r3}
harshi@ubuntu:~/Downloads/Main_Directory$ man ls
harshi@ubuntu:~/Downloads/Main_Directory$ cd 4
harshi@ubuntu:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
harshi@ubuntu:~/Downloads/Main_Directory/4$ grep "flag" .
grep: .: Is a directory
harshi@ubuntu:~/Downloads/Main_Directory/4$ 
harshi@ubuntu:~/Downloads/Main_Directory/4$ grep "flag"
^C
harshi@ubuntu:~/Downloads/Main_Directory/4$ grep "flag" *.txt
4.txt:flag{m3ow_m3ow_cat!}
harshi@ubuntu:~/Downloads/Main_Directory/4$ 
```



A screenshot of a Linux desktop environment, likely Ubuntu, showing a terminal window titled "Terminal". The terminal window has a dark background and contains the following command-line session:

```
harshi@ubuntu:~/Downloads/Main_Directory/4$ cd home/harshi/
.boot etc lib32 lost+found opt run srv tmp
cdrom home lib64 media proc sbin swapfile usr
harshi@ubuntu:/$ cd home/harshi/Downloads/Main_Directory/
harshi@ubuntu:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_fl@g_h3r3}
harshi@ubuntu:~/Downloads/Main_Directory$ man ls
harshi@ubuntu:~/Downloads/Main_Directory$ cd 4
harshi@ubuntu:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
harshi@ubuntu:~/Downloads/Main_Directory/4$ grep "flag" .
grep: .: Is a directory
harshi@ubuntu:~/Downloads/Main_Directory/4$ 
harshi@ubuntu:~/Downloads/Main_Directory/4$ grep "flag"
^C
harshi@ubuntu:~/Downloads/Main_Directory/4$ grep "flag" *.txt
4.txt:flag{m3ow_m3ow_cat!}
harshi@ubuntu:~/Downloads/Main_Directory/4$ cat 1.txt
harshi@ubuntu:~/Downloads/Main_Directory/4$ cat 2.txt
harshi@ubuntu:~/Downloads/Main_Directory/4$ cat3.txt
cat3.txt: command not found
harshi@ubuntu:~/Downloads/Main_Directory/4$ cat 3.txt
harshi@ubuntu:~/Downloads/Main_Directory/4$ cat 4.txt
flag{m3ow_m3ow_cat!}
harshi@ubuntu:~/Downloads/Main_Directory/4$ cat 5.txt
harshi@ubuntu:~/Downloads/Main_Directory/4$ 
```

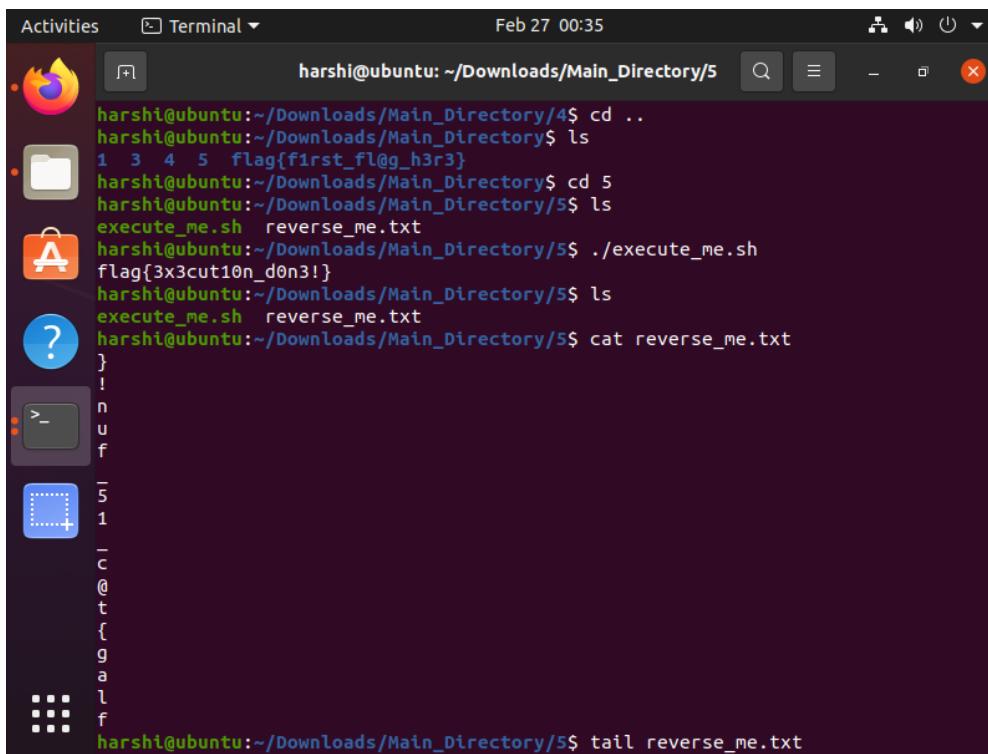
Flag 5



A screenshot of an Ubuntu desktop environment. On the left is the Unity Dash icon bar. In the center is a terminal window titled "Terminal". The terminal shows the following command-line session:

```
harshi@ubuntu:~/Downloads/Main_Directory/4$ cd ..
harshi@ubuntu:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_fl@g_h3r3}
harshi@ubuntu:~/Downloads/Main_Directory$ cd 5
harshi@ubuntu:~/Downloads/Main_Directory/5$ ls
execute_me.sh reverse_me.txt
harshi@ubuntu:~/Downloads/Main_Directory/5$ ./execute_me.sh
flag{3x3cut10n_d0n3!}
harshi@ubuntu:~/Downloads/Main_Directory/5$
```

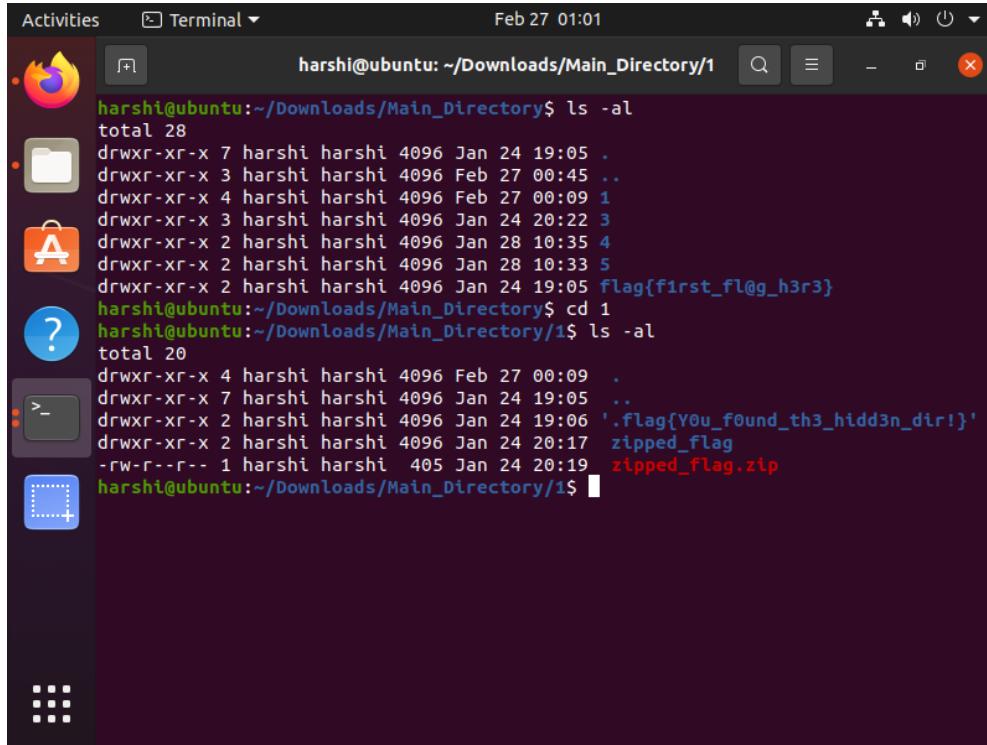
Flag 6



A screenshot of an Ubuntu desktop environment. On the left is the Unity Dash icon bar. In the center is a terminal window titled "Terminal". The terminal shows the following command-line session, identical to Flag 5:

```
harshi@ubuntu:~/Downloads/Main_Directory/4$ cd ..
harshi@ubuntu:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_fl@g_h3r3}
harshi@ubuntu:~/Downloads/Main_Directory$ cd 5
harshi@ubuntu:~/Downloads/Main_Directory/5$ ls
execute_me.sh reverse_me.txt
harshi@ubuntu:~/Downloads/Main_Directory/5$ ./execute_me.sh
flag{3x3cut10n_d0n3!}
harshi@ubuntu:~/Downloads/Main_Directory/5$ ls
execute_me.sh reverse_me.txt
harshi@ubuntu:~/Downloads/Main_Directory/5$ cat reverse_me.txt
}
!
n
u
f
-
5
1
-
c
@
t
{
g
a
l
f
harshi@ubuntu:~/Downloads/Main_Directory/5$ tail reverse_me.txt
```

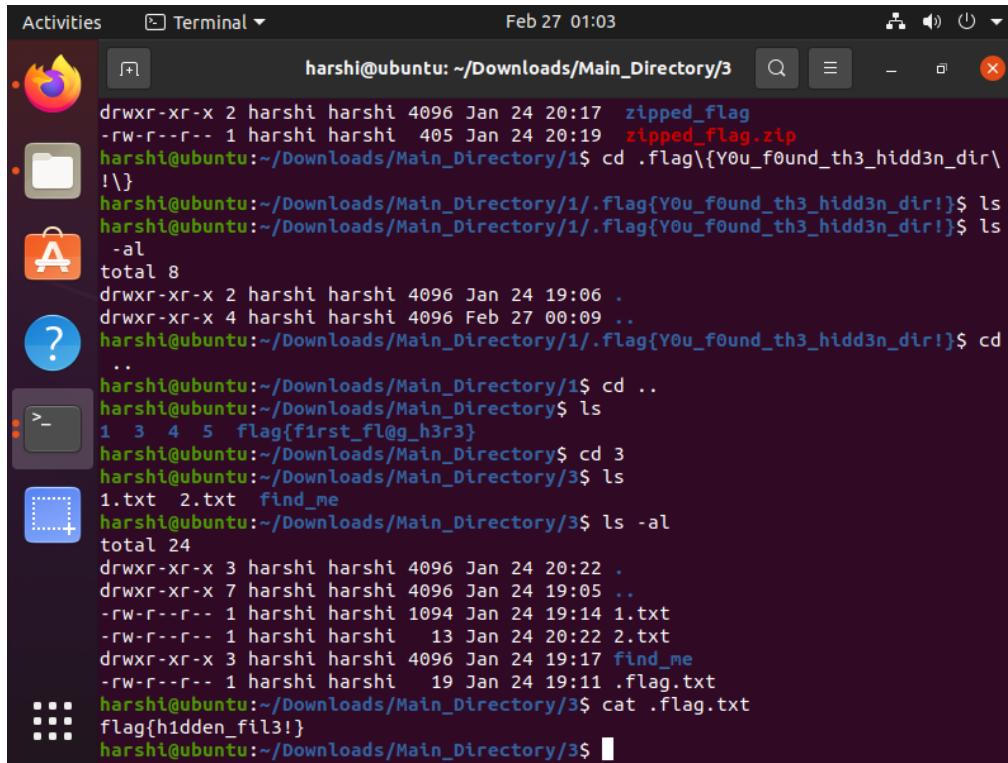
Flag 7



A screenshot of a Linux desktop environment, likely Ubuntu, showing a terminal window. The terminal window is titled "Terminal" and has the command "harshi@ubuntu: ~/Downloads/Main_Directory/1". The terminal output shows the user navigating through a directory structure and listing files. A file named ".flag{f1rst_f1g_h3r3}" is visible, which the user renames to ".flag{Y0u_f0und_th3_hidd3n_dir!}" and then compresses into a zip file named "zipped_flag.zip".

```
Activities Terminal Feb 27 01:01
harshi@ubuntu:~/Downloads/Main_Directory/1$ ls -al
total 28
drwxr-xr-x 7 harshi harshi 4096 Jan 24 19:05 .
drwxr-xr-x 3 harshi harshi 4096 Feb 27 00:45 ..
drwxr-xr-x 4 harshi harshi 4096 Feb 27 00:09 1
drwxr-xr-x 3 harshi harshi 4096 Jan 24 20:22 3
drwxr-xr-x 2 harshi harshi 4096 Jan 28 10:35 4
drwxr-xr-x 2 harshi harshi 4096 Jan 28 10:33 5
drwxr-xr-x 2 harshi harshi 4096 Jan 24 19:05 flag{f1rst_f1g_h3r3}
harshi@ubuntu:~/Downloads/Main_Directory/1$ cd 1
harshi@ubuntu:~/Downloads/Main_Directory/1$ ls -al
total 20
drwxr-xr-x 4 harshi harshi 4096 Feb 27 00:09 .
drwxr-xr-x 7 harshi harshi 4096 Jan 24 19:05 ..
drwxr-xr-x 2 harshi harshi 4096 Jan 24 19:06 '.flag{Y0u_f0und_th3_hidd3n_dir!}'
drwxr-xr-x 2 harshi harshi 4096 Jan 24 20:17 zipped_flag
-rw-r--r-- 1 harshi harshi 405 Jan 24 20:19 zipped_flag.zip
harshi@ubuntu:~/Downloads/Main_Directory/1$
```

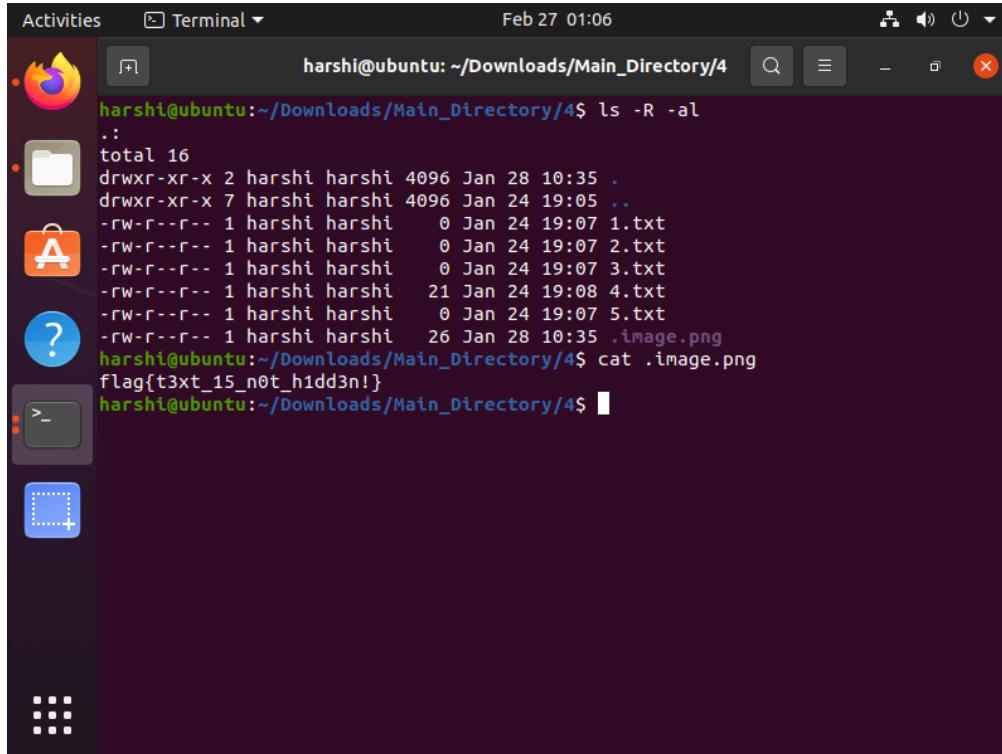
Flag 8



A screenshot of a Linux desktop environment, likely Ubuntu, showing a terminal window. The terminal window is titled "Terminal" and has the command "harshi@ubuntu: ~/Downloads/Main_Directory/3". The terminal output shows the user navigating through a directory structure and listing files. The user enters a directory named ".flag{Y0u_f0und_th3_hidd3n_dir!}" and lists its contents. They then change to another directory and list its contents, revealing several files including "1.txt", "2.txt", "find_me", and ".flag.txt". The user then catenates ".flag.txt" to see its contents.

```
Activities Terminal Feb 27 01:03
harshi@ubuntu:~/Downloads/Main_Directory/3$ ls -al
total 2
drwxr-xr-x 2 harshi harshi 4096 Jan 24 20:17 zipped_flag
-rw-r--r-- 1 harshi harshi 405 Jan 24 20:19 zipped_flag.zip
harshi@ubuntu:~/Downloads/Main_Directory/1$ cd .flag{Y0u_f0und_th3_hidd3n_dir!\!}
harshi@ubuntu:~/Downloads/Main_Directory/1$ ls
harshi@ubuntu:~/Downloads/Main_Directory/1$ .flag{Y0u_f0und_th3_hidd3n_dir!}$ ls -al
total 8
drwxr-xr-x 2 harshi harshi 4096 Jan 24 19:06 .
drwxr-xr-x 4 harshi harshi 4096 Feb 27 00:09 ..
harshi@ubuntu:~/Downloads/Main_Directory/1$ .flag{Y0u_f0und_th3_hidd3n_dir!}$ cd ..
harshi@ubuntu:~/Downloads/Main_Directory/1$ cd ..
harshi@ubuntu:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{f1rst_f1g_h3r3}
harshi@ubuntu:~/Downloads/Main_Directory$ cd 3
harshi@ubuntu:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
harshi@ubuntu:~/Downloads/Main_Directory/3$ ls -al
total 24
drwxr-xr-x 3 harshi harshi 4096 Jan 24 20:22 .
drwxr-xr-x 7 harshi harshi 4096 Jan 24 19:05 ..
-rw-r--r-- 1 harshi harshi 1094 Jan 24 19:14 1.txt
-rw-r--r-- 1 harshi harshi 13 Jan 24 20:22 2.txt
drwxr-xr-x 3 harshi harshi 4096 Jan 24 19:17 find_me
-rw-r--r-- 1 harshi harshi 19 Jan 24 19:11 .flag.txt
harshi@ubuntu:~/Downloads/Main_Directory/3$ cat .flag.txt
flag{hidden_fil3!}
harshi@ubuntu:~/Downloads/Main_Directory/3$
```

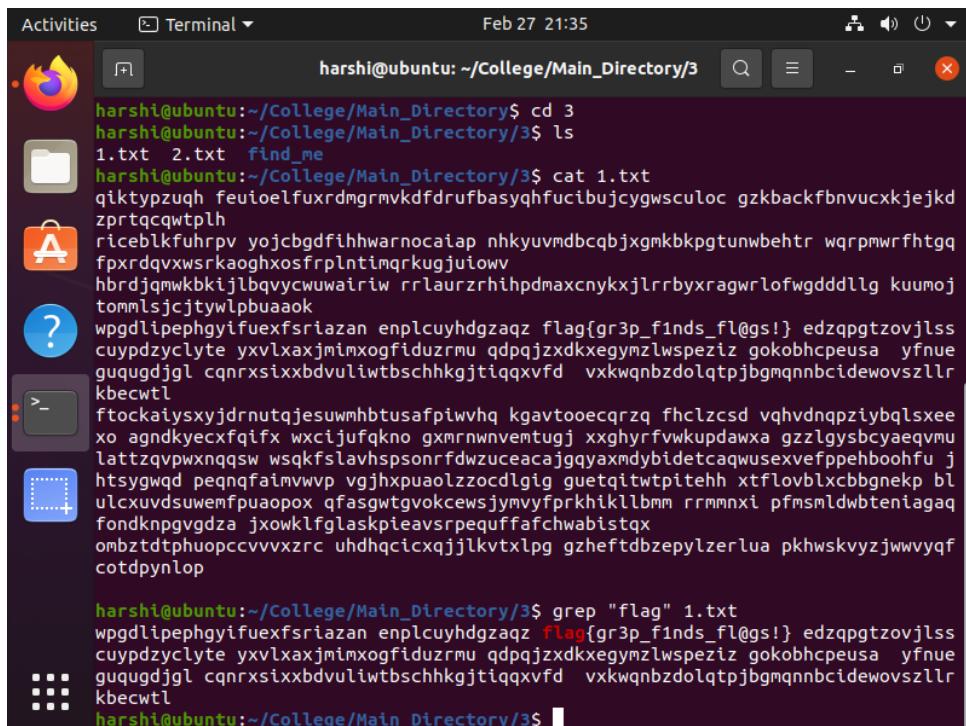
Flag 9



A screenshot of an Ubuntu desktop environment. On the left is a dock with icons for Dash, Home, Applications, and others. A terminal window is open in the center, showing the command line interface. The terminal title is "Terminal" and the prompt is "harshi@ubuntu: ~/Downloads/Main_Directory/4\$". The user runs "ls -R -al" which lists files in the directory. Then they run "cat .image.png" to view its contents.

```
harshi@ubuntu:~/Downloads/Main_Directory/4$ ls -R -al
.:
total 16
drwxr-xr-x 2 harshi harshi 4096 Jan 28 10:35 .
drwxr-xr-x 7 harshi harshi 4096 Jan 24 19:05 ..
-rw-r--r-- 1 harshi harshi    0 Jan 24 19:07 1.txt
-rw-r--r-- 1 harshi harshi    0 Jan 24 19:07 2.txt
-rw-r--r-- 1 harshi harshi    0 Jan 24 19:07 3.txt
-rw-r--r-- 1 harshi harshi   21 Jan 24 19:08 4.txt
-rw-r--r-- 1 harshi harshi    0 Jan 24 19:07 5.txt
-rw-r--r-- 1 harshi harshi  26 Jan 28 10:35 .image.png
harshi@ubuntu:~/Downloads/Main_Directory/4$ cat .image.png
flag{t3xt_15_n0t_h1dd3n!}
harshi@ubuntu:~/Downloads/Main_Directory/4$
```

Flag 10



A screenshot of an Ubuntu desktop environment. On the left is a dock with icons for Dash, Home, Applications, and others. A terminal window is open in the center, showing the command line interface. The terminal title is "Terminal" and the prompt is "harshi@ubuntu: ~/College/Main_Directory/3\$". The user runs "cd 3", "ls", and "cat 1.txt". The output of "cat 1.txt" is extremely long and contains the flag "flag{gr3p_f1nds_fl0gs!}".

```
harshi@ubuntu:~/College/Main_Directory$ cd 3
harshi@ubuntu:~/College/Main_Directory/3$ ls
1.txt 2.txt find_me
harshi@ubuntu:~/College/Main_Directory/3$ cat 1.txt
qiktypzugh feui0elfuxrdmgmrvkdfdrfbasyqhfcibujygwsculoc gzkbackfbnvucxkjekd
zprtqcwtplh
riceblkfuhrpv yojcbgdfihhwarnocaiap nhkyuvmdbcqbjxgmkbkpgtunwbeht r wqrpmwrfhtgq
fpxrdqvwxsrkaoghoxsfrplntimqrkugjuiowv
hbrdjqmwkbkijlbqvcwuairlw rrlaurzrhpdmaxcnykxjlrrbyxragwrlofwgdddllg kuumoj
tommlsjcjtywlpbuaaok
wpgdliphephyifueexfsriazan enplcuyhdgzaqz flag{gr3p_f1nds_fl0gs!} edzqpgtzovjsss
cuypdzlyte yxvlxajmimxogfiduzrmu qdpqjzxdkxegymzlwspeziz gokohcpeusa yfnue
guqugdjgl cqnrxsixxbvdvuliwtbschhkgjtiquxvfd vxkwqnbdolqtpjbgmqnnbcidewovszllr
kbecwtl
ftockaiysxyjdrnutqjesuwmhbtsafpiwhq kgavtooeqrqz fhclzsd vqhvdnqpziybqlsxee
xo agndkyecxfqifx wxciujufqno gxmrnwvnemtugj xxghyrfvwkupdawxa gzzlgysbcyaevvmu
lattzqvwpnqqsw wsqkflslavhspsonefdwzceacajgqyaxmdybidetcaqwusevfppehboohfu j
htsywgqd peqnqfaimvwvp vgjhxpuaolzzcdlig guetqitwtpitehh xtflowblxcbgnckp bl
ulcxuvdsuwemfpuaopox qfasgtwgvtokcewsjyfprkhikllbmm rrmnnxi pfmsmldwbtentiagaq
fondknpgvgdza jxowlklfglasjkpieavsrequeffafchwabistqx
ombztdtphuopccvvvxzrc uhdhcicxqjjlkvtlxpg gzheftdbzepylzerlua pkhwskvyzjwwvyqf
cotdpynlop

harshi@ubuntu:~/College/Main_Directory/3$ grep "flag" 1.txt
wpgdliphephyifueexfsriazan enplcuyhdgzaqz flag{gr3p_f1nds_fl0gs!} edzqpgtzovjsss
cuypdzlyte yxvlxajmimxogfiduzrmu qdpqjzxdkxegymzlwspeziz gokohcpeusa yfnue
guqugdjgl cqnrxsixxbvdvuliwtbschhkgjtiquxvfd vxkwqnbdolqtpjbgmqnnbcidewovszllr
kbecwtl
harshi@ubuntu:~/College/Main_Directory/3$
```

Flag 11

Activities Terminal ▾ Feb 27 01:11 harshi@ubuntu: ~/Downloads/Main_Directory/5\$ ls -R -al

```
./
total 24
drwxr-xr-x 2 harshi harshi 4096 Jan 28 10:33 .
drwxr-xr-x 7 harshi harshi 4096 Jan 24 19:05 ..
-rw-r--r-- 1 harshi harshi 3778 Jan 28 10:33 .compare_me1.txt
-rw-r--r-- 1 harshi harshi 3780 Jan 24 20:58 .compare_me2.txt
-rwx-----x 1 harshi harshi 29 Jan 24 21:21 execute_me.sh
-rw-r--r-- 1 harshi harshi 34 Jan 24 20:27 reverse_me.txt
harshi@ubuntu:~/Downloads/Main_Directory/5$ diff .compare_me1.txt .compare_me2.txt
83c83
< f
---
> z
173c173
< l
---
> z
340c340
< a
---
> z
431c431
< g
---
> z
585c585
< {
```

Activities Terminal ▾ Feb 27 01:12 harshi@ubuntu: ~/Downloads/Main_Directory/5\$

```
< {
---
> z
601d600
< d
665c664,665
< 1
---
> z
> z
769c769
< f
---
> z
876c876
< f
---
> z
938c938
< _
---
> z
1398a1399
> z
1403d1403
< 1
1473c1473,1474
< 5
---
```

```
Activities Terminal Feb 27 01:13
harshi@ubuntu: ~/Downloads/Main_Directory/5

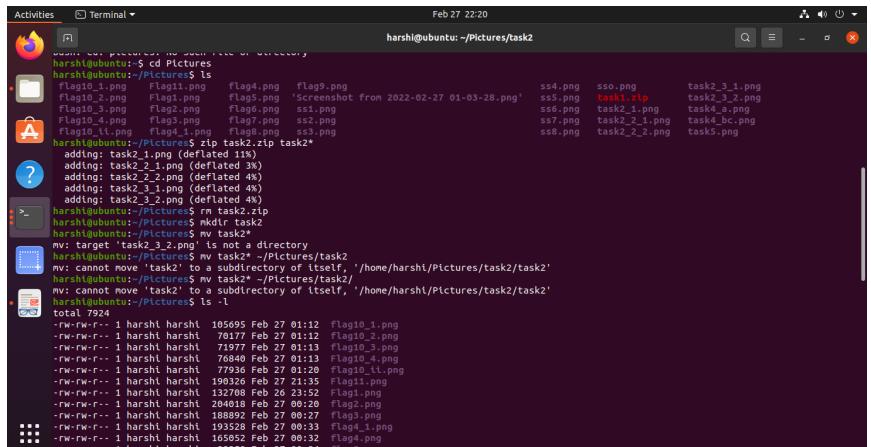
< 5
---
> z
> z
1500d1500
<
-
1577c1577,1578
< u
---
> z
> z
1613d1613
< 5
1679c1679,1680
< 3
---
> z
> z
1727d1727
< f
1779c1779,1780
< u
---
> z
> z
1823d1823
< l
1897,1898c1897,1899
< !

```

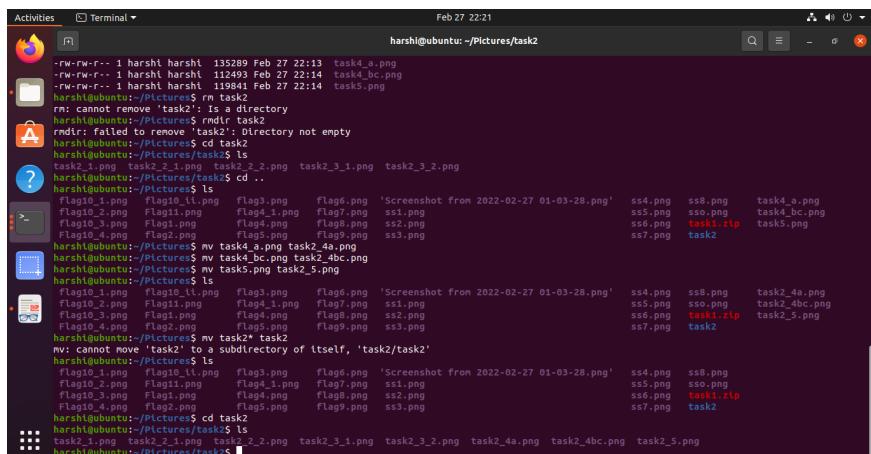
```
Activities Terminal Feb 27 01:13
harshi@ubuntu: ~/Downloads/Main_Directory/5
1577c1577,1578
< u
---
> z
> z
1613d1613
< 5
1679c1679,1680
< 3
---
> z
> z
1727d1727
< f
1779c1779,1780
< u
---
> z
> z
1823d1823
< l
1897,1898c1897,1899
< !
< }
---
> z
> z
> z
harshi@ubuntu:~/Downloads/Main_Directory/5$
```

```
Activities Terminal Feb 27 01:19
harshi@ubuntu:~/College/Main_Directory/5$ diff --suppress-common-lines .compare_me1.txt .compare_me2.txt
83c83
< f
---
> z
173c173
< l
---
> z
340c340
< a
---
> z
431c431
< g
---
> z
585c585
< {
---
> z
661d600
< d
665c664,665
< 1
---
> z
> z
```

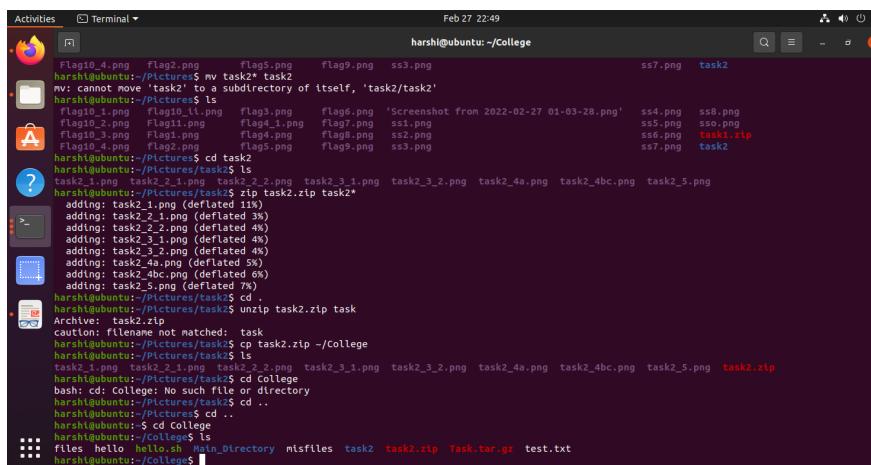
Screenshots for mv,mkdir,cp,rm commands :



```
harsh@ubuntu:~/Pictures/task2$ mv task2* task2/
mv: cannot move 'task2*' to a subdirectory of itself, '/home/harsh/Pictures/task2/task2'
harsh@ubuntu:~/Pictures$ mv task2* /Pictures/task2/
mv: cannot move 'task2*' to a subdirectory of itself, '/home/harsh/Pictures/task2/task2'
harsh@ubuntu:~/Pictures$ mv task2*
total 7924
```



```
harsh@ubuntu:~/Pictures$ rm task2
rm: cannot remove 'task2': Is a directory
harsh@ubuntu:~/Pictures$ rmdir task2
rmdir: failed to remove 'task2': Directory not empty
harsh@ubuntu:~/Pictures$ ls task2
task2_1.png task2_2_1.png task2_2_2.png task2_3_1.png task2_3_2.png
harsh@ubuntu:~/Pictures$ cd ..
harsh@ubuntu:~/Pictures$ ls
Flag10_1.png Flag10_11.png flag3.png flag4.png flag5.png 'Screenshot from 2022-02-27 01-03-28.png' ss4.png ss8.png task4_a.png
Flag10_2.png Flag11.png flag4_1.png flag7.png ss1.png ss5.png sso.png task4_bc.png
Flag10_3.png Flag11.png flag4.png flag8.png ss2.png ss6.png task1.zip task4_d.png
Flag10_4.png Flag2.png flag4_2.png flag9.png ss3.png ss7.png task2
harsh@ubuntu:~/Pictures$ mv task2 task2
mv: cannot move 'task2' to a subdirectory of itself, 'task2/task2'
harsh@ubuntu:~/Pictures$ ls
Flag10_1.png Flag10_11.png flag3.png flag4.png flag5.png 'Screenshot from 2022-02-27 01-03-28.png' ss4.png ss8.png task2_4a.png
Flag10_2.png Flag11.png flag4_1.png flag7.png ss1.png ss5.png sso.png task2_4bc.png
Flag10_3.png Flag11.png flag4.png flag8.png ss2.png ss6.png task1.zip task2_5.png
Flag10_4.png Flag2.png flag4_2.png flag9.png ss3.png ss7.png task2
harsh@ubuntu:~/Pictures$ cd task2
harsh@ubuntu:~/Pictures/task2$ ls
task2_1.png task2_2_1.png task2_2_2.png task2_3_1.png task2_3_2.png task2_4a.png task2_4bc.png task2_5.png
harsh@ubuntu:~/Pictures/task2$
```



```
harsh@ubuntu:~/College$ cp task2* task2
cp: task2: Archive: task2.zip
cp: archive filename not matched: task2
harsh@ubuntu:~/College$ cp task2.zip -> College
bash: cp: College: No such file or directory
harsh@ubuntu:~/College$ cd ..
harsh@ubuntu:~/Pictures$ cd ..
harsh@ubuntu:~$ cd College
harsh@ubuntu:~/College$ ls
file hello hello.sh Main_Directory misfiles task2 task2.zip Task.tar.gz test.txt
harsh@ubuntu:~/College$
```

Extra screenshots of finding the flag :

```
Activities Terminal ▾ harshi@ubuntu: ~/Downloads Feb 26 23:50
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

harshi@ubuntu:~$ whoami
harshi
harshi@ubuntu:~$ hostname
ubuntu
harshi@ubuntu:~$ date
Sat 26 Feb 2022 09:19:01 PM IST
harshi@ubuntu:~$ time
real    0m0.000s
user    0m0.000s
sys     0m0.000s
harshi@ubuntu:~$ cal
February 2022
Su Mo Tu We Th Fr Sa
      1  2  3  4  5
 6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28

harshi@ubuntu:~$ pwd
/home/harshi
harshi@ubuntu:~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
harshi@ubuntu:~$ cd Downloads
harshi@ubuntu:~/Downloads$ ls
```

```
Activities Terminal ▾ harshi@ubuntu: ~/Downloads/Main_Directory/1/zipped_flag Feb 27 00:14
harshi@ubuntu:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_fl@g_h3r3}
harshi@ubuntu:~/Downloads/Main_Directory$ cd 1
harshi@ubuntu:~/Downloads/Main_Directory/1$ ls
zipped_flag.zip
harshi@ubuntu:~/Downloads/Main_Directory/1$ unzip zipped_flag.zip
Archive: zipped_flag.zip
      creating: zipped_flag/
[zipped_flag.zip] zipped_flag/zipped_flag.txt password: harshi@ubuntu:~/Downloads/Main_Directory/1$ cd..
cd..: command not found
harshi@ubuntu:~/Downloads/Main_Directory/1$ cd.

Command 'cd.' not found, did you mean:

  command 'cd5' from deb cd5 (0.1-4)
  command 'cde' from deb cde (0.1+git9-g551e54d-1.1build1)
  command 'cdb' from deb tinycdb (0.78build1)
  command 'cdw' from deb cdw (0.8.1-1build4)
  command 'cd0' from deb cdo (1.9.9-rc1-1)
  command 'cd1' from deb cdo (1.9.9-rc1-1)
  command 'cdp' from deb irpas (0.10-7)

Try: sudo apt install <deb name>

harshi@ubuntu:~/Downloads/Main_Directory/1$ man cd
No manual entry for cd
harshi@ubuntu:~/Downloads/Main_Directory/1$ cd/
bash: cd/: No such file or directory
```

Activities Terminal ▾ harshi@ubuntu: ~/Downloads/Main_Directory/1/zipped_flag Feb 27 00:17

```
No manual entry for cd
harshi@ubuntu:~/Downloads/Main_Directory/1$ cd/
bash: cd/: No such file or directory
harshi@ubuntu:~/Downloads/Main_Directory/1$ cd /
harshi@ubuntu:$ pwd
/
harshi@ubuntu:$ ls
bin dev lib libx32 mnt root snap sys var
boot etc lib32 lost+found opt run srv
cdrom home lib64 media proc sbin swapfile usr
harshi@ubuntu:$
harshi@ubuntu:$ cd home
harshi@ubuntu:/home$ ls
harshi
harshi@ubuntu:/home$ cd harshi
harshi@ubuntu:$ ls
College Documents Music Public Videos
Desktop Downloads Pictures Templates
harshi@ubuntu:$ Cd Downloads
Cd: command not found
harshi@ubuntu:$ cd Downloads
harshi@ubuntu:~/Downloads$ cd Main_Directory
harshi@ubuntu:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_flag_h3r3}
harshi@ubuntu:~/Downloads/Main_Directory$ cd 3
harshi@ubuntu:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
harshi@ubuntu:~/Downloads/Main_Directory/3$ cat 1.txt
qiktypzuh feuiouelfuxrdmrvkdfdrufbasvhfucibuiqvawsculoc ozkbackfbnvucxkieikd
```

Activities Terminal ▾ harshi@ubuntu: ~/Downloads/Main_Directory/1/zipped_flag Feb 27 00:19

```
harshi@ubuntu:~/Downloads/Main_Directory$ cd 3
harshi@ubuntu:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
harshi@ubuntu:~/Downloads/Main_Directory/3$ cat 1.txt
qiktypzuh feuiouelfuxrdmrvkdfdrufbasvhfucibujcygwsculoc gzkbackfbnvucxkjekd
zprtpcqwtplh
riceblkfuhrpv yojcbgdfihhwarnocatiap nhkyuvmdbcqbjxgmkbkpgtunwbehtw wqrpmwrfhtgq
pxrxdqvxwsrkaoghxosfrplntimqrkugjuowlw
hbrdjqmwkbkblqbyvycwuariw rrlaurzrhipepdmaxcnykjrlrrbyxragwrlowfgddllg kuumoj
tommlsjcjtywlpbuaak
wpgdlipephyifuexlsriazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqpgtzovjlss
cuydpqcylyte yxvlxaxjmtmxogfiduzrmu qdpqjzxdkxegymzlwspeziz gokobhcpeusa yfnue
guqugdjgl cqnrxsixxbdvuliwtbschhkgjtiqqxvfd vxkwqnbdolqtpbjbgmqnnbcidewovszllr
kbecwtl
ftcockaisxyjdrnltqjesuwmhbtusafpiwvhq kgavtoecqrqz fhclzcsd vqhvdnqpziybqlsxee
xo agndkyecxfqifx wxcijufqkno gxmrnwvnventugj xxghyrfvwkupdawxa gzzlysbcyaeqvnu
lattzqvpwxnqsw wsqkfslavhpsonrfdwzuceacajggqayxmdybidetcaqwusexvefppehboohfu j
htsywgqdeqgnqfaimvvvp vgjhxpuaolzzodlgig quetqitwtpitehh xtflovblxcbgnekp bl
ulcxuvdsuwemfpuaopox qfasgtwtgvokcewsjymvyfprkhikllbmrrmmnnxi pfmsmlldwbteniagaq
fondknpgvgda jxowklfglaspleavsrpeuffafchabistqx
ombztdtphuopccvvvxzrc uhdhqicxqjlkvtxlpg gzheftdbzepylzerlua pkhwskvyzjwwvyqfcotdpynlop

harshi@ubuntu:~/Downloads/Main_Directory/3$ cat 2.txt
No Flag here
harshi@ubuntu:~/Downloads/Main_Directory/3$ cd find_me
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me$ ls
1
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me$ cd 1
```

```
Activities Terminal ▾ Feb 27 00:19
 harshi@ubuntu: ~/Downloads/Main_Directory/1/zipped_flag
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1$ ls
2
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1$ cd 2
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2$ ls
3
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2$ 
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2$ ls
3
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2$ cd 3
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3$ ls
4
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password_for_zip.txt
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zi
p.txt
zip_file_huh?
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd ../../..
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1$ cd ../../..
harshi@ubuntu:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_fl0g_h3r3}
harshi@ubuntu:~/Downloads/Main_Directory$ cd 1
harshi@ubuntu:~/Downloads/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
harshi@ubuntu:~/Downloads/Main_Directory/1$ cd zipped_flag
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ ls
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ cd ..
harshi@ubuntu:~/Downloads/Main_Directory/1$ unzip zipped_flag
zipped_flag/ zipped_flag.zip
```

```
Activities Terminal harshi@ubuntu: ~/Downloads/Main_Directory/1/zipped_flag [Feb 27 00:20]
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag/ zipped_flag.zip
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ unzip zipped_flag
Archive: zipped_flag.zip
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
password incorrect--reenter: harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag/ zipped_flag.zip
Archive: zipped_flag.zip
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
extracting: zipped_flag/zipped_flag.txt  bad CRC 7e17d2df (should be 44ce113
e)
(may instead be incorrect password)
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag/ zipped_flag.zip
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ rm zipped_flag
rm: cannot remove 'zipped_flag': Is a directory
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ rmdir zipped_flag
rmdir: failed to remove 'zipped_flag': Directory not empty
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ cd zipped_flag
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
\${#*****>***cV' harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ rm zipped_flag.txt
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ cd ..
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag/ zipped_flag.zip
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ rmdir zipped_flag
harshi@ubuntu:~/Downloads/Main_Directory/1/zipped_flag$ ls
```

```
Activities Terminal harshi@ubuntu: ~/Downloads/Main_Directory/3/find_me/1/... [Feb 27 00:26]
harshi@ubuntu:~/Downloads/Main_Directory$ ls
1 3 4 5 flag(first_flag_h3r3}
harshi@ubuntu:~/Downloads/Main_Directory$ cd 3
harshi@ubuntu:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
harshi@ubuntu:~/Downloads/Main_Directory/3$ cd find_me
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me$ ls
1
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me$ cd 1
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1$ ls
2
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1$ cd 2
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2$ ls
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2$ ls
3
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2$ cd 3
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3$ ls
4
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password_for_zip.txt
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd 5
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ ls
6
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ ls
7
harshi@ubuntu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ ls
```

```
Activities Terminal harshi@ubuntu: ~/College/Main_Directory/3 [Feb 27 21:35]
harshi@ubuntu:~/College/Main_Directory/3$ cd ..
harshi@ubuntu:~$ ls -l
total 36
drwxrwxr-x 4 harshi harshi 4096 Feb 27 21:29 College
drwxr-xr-x 2 harshi harshi 4096 Feb 25 21:07 Desktop
drwxr-xr-x 2 harshi harshi 4096 Feb 25 21:07 Documents
drwxr-xr-x 3 harshi harshi 4096 Feb 27 00:45 Downloads
drwxr-xr-x 2 harshi harshi 4096 Feb 25 21:07 Music
drwxr-xr-x 2 harshi harshi 4096 Feb 27 01:20 Pictures
drwxr-xr-x 2 harshi harshi 4096 Feb 25 21:07 Public
drwxr-xr-x 2 harshi harshi 4096 Feb 25 21:07 Templates
drwxr-xr-x 2 harshi harshi 4096 Feb 25 21:07 Videos
harshi@ubuntu:~$ ls
College Documents Music Public Videos
Desktop Downloads Pictures Templates
harshi@ubuntu:~$ cd College
harshi@ubuntu:~/College$ ls
files hello hello.sh Main_Directory misfiles task2 Task.tar.gz test.txt
harshi@ubuntu:~/College$ cd Main_Directory
harshi@ubuntu:~/College/Main_Directory$ ls
1 3 4 5 flag(first_flag_h3r3}
harshi@ubuntu:~/College/Main_Directory$ cd 3
harshi@ubuntu:~/College/Main_Directory/3$ ls
1.txt 2.txt find_me
harshi@ubuntu:~/College/Main_Directory/3$ cat 1.txt
qktypzugh feulofuxrdmgrnvkdfdrufbasqyghfucibujcygwsclloc gzkbackfbnvucxkjekjd
zprtqcwtpjh riceblkfuhrpv yojcbgdflhhwarnocaiap nhkyuvmdbcqbjxgmkbpgtunwbehtw wqrpmwrfhtgg
```

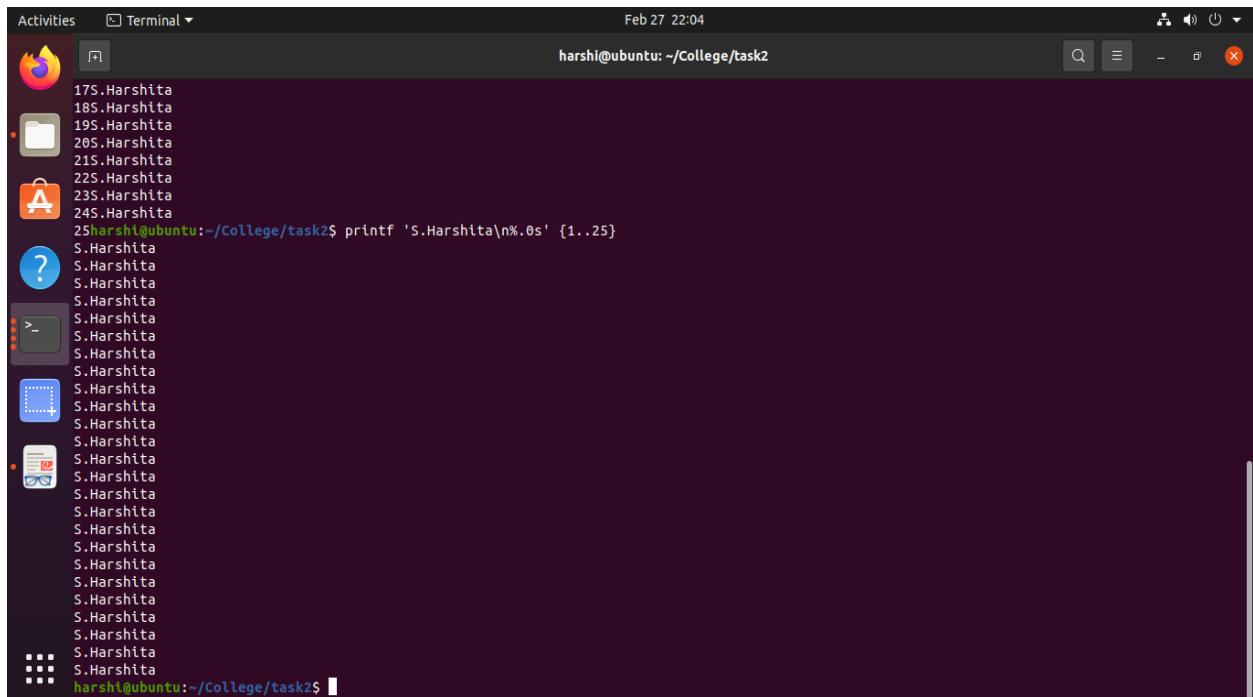
Task 2 :

Questions:

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

For the given question I have used the following command to print my name 25 times.

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



The screenshot shows a terminal window titled "Terminal" in the top bar. The window title bar also includes "Activities" and the date "Feb 27 22:04". The terminal window has a dark background. On the left side, there is a vertical dock with icons for various applications: a browser, a file manager, a terminal, a help icon, a dash icon, a dash search icon, a dash dock icon, a dash dash icon, a dash dash search icon, and a dash dash dock icon. The main area of the terminal shows the command "printf 'S.Harshita\n%.0s' {1..25}" followed by 25 lines of the text "S.Harshita". The command was run by the user "harshi" at the prompt "harshi@ubuntu: ~/College/task2\$".

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

For the given question I have used the following command to print the first 30 entries of syslog.

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

Activities Terminal ▾ Feb 27 22:06 harshi@ubuntu: ~/College/task2

harshi@ubuntu: ~

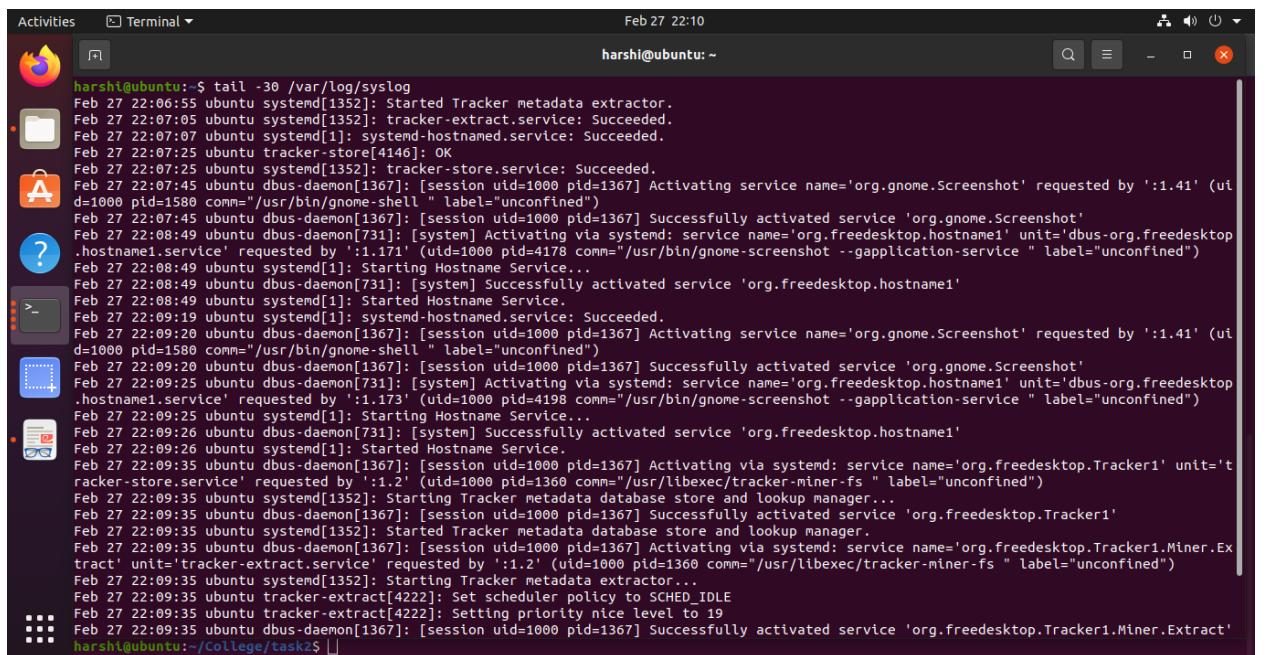
```
17S.H:  
18S.H:  
19S.H:  
20S.H: harshi@ubuntu:~$ head -n 30 /var/log/syslog  
21S.H: Feb 26 10:30:37 ubuntu rsyslogd: [origin software="rsyslogd" swVersion="8.2001.0" x-pid="754" x-info="https://www.rsyslog.com"] rsyslogd  
22S.H: was HUPped  
23S.H: Feb 26 10:30:37 ubuntu systemd[1]: logrotate.service: Succeeded.  
24S.H: Feb 26 10:30:37 ubuntu systemd[1]: Finished Rotate log files.  
25S.H: Feb 26 10:33:52 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.gedit' requested by ':1.149' (u  
S.H: id=1000 pid=5475 comm="/usr/bin/nautilus --gapplication-service " label="unconfined")  
S.H: Feb 26 10:33:52 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.gedit'  
S.H: Feb 26 10:34:11 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.gedit' requested by ':1.149' (u  
S.H: id=1000 pid=5475 comm="/usr/bin/nautilus --gapplication-service " label="unconfined")  
S.H: Feb 26 10:34:11 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.gedit'  
S.H: Feb 26 10:34:11 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.gedit' requested by ':1.149' (u  
S.H: id=1000 pid=5475 comm="/usr/bin/nautilus --gapplication-service " label="unconfined")  
S.H: Feb 26 10:34:23 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.gedit'  
S.H: Feb 26 10:34:23 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.gedit' requested by ':1.149' (u  
S.H: id=1000 pid=5475 comm="/usr/bin/nautilus --gapplication-service " label="unconfined")  
S.H: Feb 26 10:34:23 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.gedit'  
S.H: Feb 26 10:34:23 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.gedit' requested by ':1.149' (u  
S.H: id=1000 pid=5475 comm="/usr/bin/nautilus --gapplication-service " label="unconfined")  
S.H: Feb 26 10:34:31 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.gedit'  
S.H: Feb 26 10:34:31 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.gedit' requested by ':1.149' (u  
S.H: id=1000 pid=5475 comm="/usr/bin/nautilus --gapplication-service " label="unconfined")  
S.H: Feb 26 10:34:31 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.gedit'  
S.H: Feb 26 10:34:31 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.gedit' requested by ':1.149' (u  
S.H: id=1000 pid=5475 comm="/usr/bin/nautilus --gapplication-service " label="unconfined")  
S.H: Feb 26 10:34:34 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.gedit' requested by ':1.149' (u  
S.H: id=1000 pid=5475 comm="/usr/bin/nautilus --gapplication-service " label="unconfined")  
S.H: Feb 26 10:34:35 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.gedit'  
S.H: Feb 26 10:34:42 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.gedit' requested by ':1.149' (u  
S.H: id=1000 pid=5475 comm="/usr/bin/nautilus --gapplication-service " label="unconfined")  
S.H: Feb 26 10:34:42 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.gedit'  
S.H: Feb 26 10:35:09 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.gedit' requested by ':1.149' (u  
S.H: id=1000 pid=5475 comm="/usr/bin/nautilus --gapplication-service " label="unconfined")  
S.H: Feb 26 10:35:09 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.gedit'  
S.H: Feb 26 10:35:44 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.gedit' requested by ':1.149' (u  
S.H: id=1000 pid=5475 comm="/usr/bin/nautilus --gapplication-service " label="unconfined")  
S.H: Feb 26 10:35:44 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.gedit'  
harsh Feb 26 10:35:44 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.gedit'
```

```
Activities Terminal ▾ Feb 27 22:09 harshi@ubuntu:~  
[+]  
  
Feb 26 10:34:23 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.gedit'  
Feb 26 10:34:27 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.gedit' requested by ':1.149' (uid=1000 pid=5475 comm="/usr/bin/nautilus --gapplication-service" label="unconfined")  
Feb 26 10:34:27 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.gedit'  
Feb 26 10:34:31 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.gedit' requested by ':1.149' (uid=1000 pid=5475 comm="/usr/bin/nautilus --gapplication-service" label="unconfined")  
Feb 26 10:34:31 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.gedit'  
Feb 26 10:34:34 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.gedit' requested by ':1.149' (uid=1000 pid=5475 comm="/usr/bin/nautilus --gapplication-service" label="unconfined")  
Feb 26 10:34:35 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.gedit'  
Feb 26 10:34:42 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.gedit' requested by ':1.149' (uid=1000 pid=5475 comm="/usr/bin/nautilus --gapplication-service" label="unconfined")  
Feb 26 10:34:42 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.gedit'  
Feb 26 10:35:09 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.gedit' requested by ':1.149' (uid=1000 pid=5475 comm="/usr/bin/nautilus --gapplication-service" label="unconfined")  
Feb 26 10:35:09 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.gedit'  
Feb 26 10:35:44 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.gedit' requested by ':1.149' (uid=1000 pid=5475 comm="/usr/bin/nautilus --gapplication-service" label="unconfined")  
Feb 26 10:35:44 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.gedit'  
Feb 26 10:38:16 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.gedit' requested by ':1.149' (uid=1000 pid=5475 comm="/usr/bin/nautilus --gapplication-service" label="unconfined")  
Feb 26 10:38:16 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.gedit'  
Feb 26 10:41:24 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.Screenshot' requested by ':1.42' (uid=1000 pid=1576 comm="/usr/bin/gnome-shell" label="unconfined")  
Feb 26 10:41:24 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.Screenshot'  
Feb 26 10:43:44 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.Screenshot' requested by ':1.42' (uid=1000 pid=1576 comm="/usr/bin/gnome-shell" label="unconfined")  
Feb 26 10:43:44 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.Screenshot'  
Feb 26 10:44:31 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.Screenshot' requested by ':1.42' (uid=1000 pid=1576 comm="/usr/bin/gnome-shell" label="unconfined")  
Feb 26 10:44:31 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.Screenshot'  
Feb 26 10:44:37 ubuntu dbus-daemon[722]: [system] Activating via systemd: service name='org.freedesktop.hostname1' unit='dbus-org.freedesktop.hostname1.service' requested by ':1.155' (uid=1000 pid=6489 comm="/usr/bin/gnome-screenshot --gapplication-service" label="unconfined")  
harshi@ubuntu:~
```

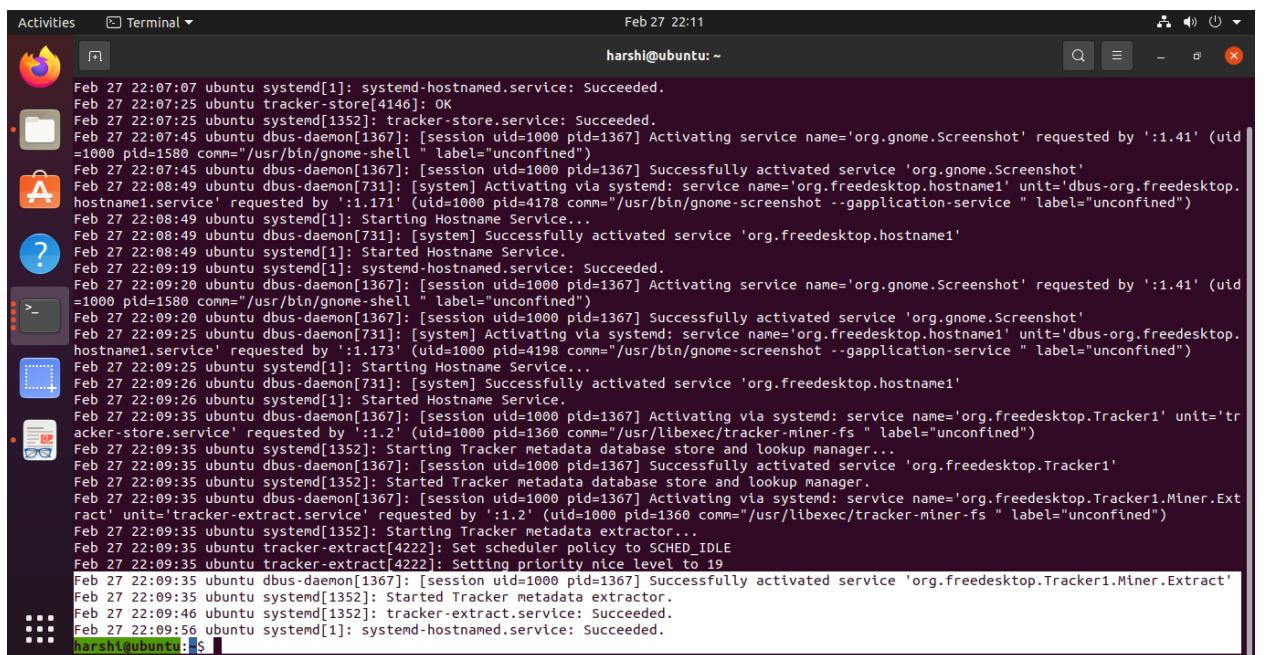
3. What command should I use to display the last 30 entries of a syslog file?

For the given question I have used the following command to print the last 30 entries of syslog.

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



```
Activities Terminal ▾ harshi@ubuntu:~$ tail -n 30 /var/log/syslog
Feb 27 22:06:55 ubuntu systemd[1352]: Started Tracker metadata extractor.
Feb 27 22:07:05 ubuntu systemd[1352]: tracker-extract.service: Succeeded.
Feb 27 22:07:07 ubuntu systemd[1]: systemd-hostnamed.service: Succeeded.
Feb 27 22:07:25 ubuntu tracker-store[4146]: OK
Feb 27 22:07:25 ubuntu systemd[1352]: tracker-store.service: Succeeded.
Feb 27 22:07:45 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.Screenshot' requested by ':1.41' (uid=1000 pid=1580 comm="/usr/bin/gnome-shell" label="unconfined")
Feb 27 22:07:45 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.Screenshot'
Feb 27 22:08:49 ubuntu dbus-daemon[731]: [system] Activating via systemd: service name='org.freedesktop.hostname1' unit='dbus-org.freedesktop.hostname1.service' requested by ':1.171' (uid=1000 pid=4178 comm="/usr/bin/gnome-screenshot --gapplication-service" label="unconfined")
Feb 27 22:08:49 ubuntu systemd[1]: Starting Hostname Service...
Feb 27 22:08:49 ubuntu dbus-daemon[731]: [system] Successfully activated service 'org.freedesktop.hostname1'
Feb 27 22:09:19 ubuntu systemd[1]: systemd-hostnamed.service: Succeeded.
Feb 27 22:09:20 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.Screenshot' requested by ':1.41' (uid=1000 pid=1580 comm="/usr/bin/gnome-shell" label="unconfined")
Feb 27 22:09:20 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.Screenshot'
Feb 27 22:09:25 ubuntu dbus-daemon[731]: [system] Activating via systemd: service name='org.freedesktop.hostname1' unit='dbus-org.freedesktop.hostname1.service' requested by ':1.173' (uid=1000 pid=4198 comm="/usr/bin/gnome-screenshot --gapplication-service" label="unconfined")
Feb 27 22:09:25 ubuntu systemd[1]: Starting Hostname Service...
Feb 27 22:09:26 ubuntu dbus-daemon[731]: [system] Successfully activated service 'org.freedesktop.hostname1'
Feb 27 22:09:26 ubuntu systemd[1]: Started Hostname Service.
Feb 27 22:09:35 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating via systemd: service name='org.freedesktop.Tracker1' unit='tracker-store.service' requested by ':1.2' (uid=1000 pid=1360 comm="/usr/libexec/tracker-miner-fs" label="unconfined")
Feb 27 22:09:35 ubuntu systemd[1352]: Starting Tracker metadata database store and lookup manager...
Feb 27 22:09:35 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.freedesktop.Tracker1'
Feb 27 22:09:35 ubuntu systemd[1352]: Started Tracker metadata database store and lookup manager.
Feb 27 22:09:35 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating via systemd: service name='org.freedesktop.Tracker1.Miner.Extract' unit='tracker-extract.service' requested by ':1.2' (uid=1000 pid=1360 comm="/usr/libexec/tracker-miner-fs" label="unconfined")
Feb 27 22:09:35 ubuntu systemd[1352]: Starting Tracker metadata extractor...
Feb 27 22:09:35 ubuntu tracker-extract[4222]: Set scheduler policy to SCHED_IDLE
Feb 27 22:09:35 ubuntu tracker-extract[4222]: Setting priority nice level to 19
Feb 27 22:09:35 ubuntu dbus-daemon[731]: [session uid=1000 pid=1367] Successfully activated service 'org.freedesktop.Tracker1.Miner.Extract'
harshi@ubuntu:~/College/task2$
```



```
Activities Terminal ▾ harshi@ubuntu:~$ tail -n 30 /var/log/syslog
Feb 27 22:07:07 ubuntu systemd[1]: systemd-hostnamed.service: Succeeded.
Feb 27 22:07:25 ubuntu tracker-store[4146]: OK
Feb 27 22:07:25 ubuntu systemd[1352]: tracker-store.service: Succeeded.
Feb 27 22:07:45 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.Screenshot' requested by ':1.41' (uid=1000 pid=1580 comm="/usr/bin/gnome-shell" label="unconfined")
Feb 27 22:07:45 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.Screenshot'
Feb 27 22:08:49 ubuntu dbus-daemon[731]: [system] Activating via systemd: service name='org.freedesktop.hostname1' unit='dbus-org.freedesktop.hostname1.service' requested by ':1.171' (uid=1000 pid=4178 comm="/usr/bin/gnome-screenshot --gapplication-service" label="unconfined")
Feb 27 22:08:49 ubuntu systemd[1]: Starting Hostname Service...
Feb 27 22:08:49 ubuntu dbus-daemon[731]: [system] Successfully activated service 'org.freedesktop.hostname1'
Feb 27 22:09:19 ubuntu systemd[1]: systemd-hostnamed.service: Succeeded.
Feb 27 22:09:20 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating service name='org.gnome.Screenshot' requested by ':1.41' (uid=1000 pid=1580 comm="/usr/bin/gnome-shell" label="unconfined")
Feb 27 22:09:20 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.gnome.Screenshot'
Feb 27 22:09:25 ubuntu dbus-daemon[731]: [system] Activating via systemd: service name='org.freedesktop.hostname1' unit='dbus-org.freedesktop.hostname1.service' requested by ':1.173' (uid=1000 pid=4198 comm="/usr/bin/gnome-screenshot --gapplication-service" label="unconfined")
Feb 27 22:09:25 ubuntu systemd[1]: Starting Hostname Service...
Feb 27 22:09:26 ubuntu dbus-daemon[731]: [system] Successfully activated service 'org.freedesktop.hostname1'
Feb 27 22:09:26 ubuntu systemd[1]: Started Hostname Service.
Feb 27 22:09:35 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating via systemd: service name='org.freedesktop.Tracker1' unit='tracker-store.service' requested by ':1.2' (uid=1000 pid=1360 comm="/usr/libexec/tracker-miner-fs" label="unconfined")
Feb 27 22:09:35 ubuntu systemd[1352]: Starting Tracker metadata database store and lookup manager...
Feb 27 22:09:35 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Successfully activated service 'org.freedesktop.Tracker1'
Feb 27 22:09:35 ubuntu systemd[1352]: Started Tracker metadata database store and lookup manager.
Feb 27 22:09:35 ubuntu dbus-daemon[1367]: [session uid=1000 pid=1367] Activating via systemd: service name='org.freedesktop.Tracker1.Miner.Extract' unit='tracker-extract.service' requested by ':1.2' (uid=1000 pid=1360 comm="/usr/libexec/tracker-miner-fs" label="unconfined")
Feb 27 22:09:35 ubuntu systemd[1352]: Starting Tracker metadata extractor...
Feb 27 22:09:35 ubuntu tracker-extract[4222]: Set scheduler policy to SCHED_IDLE
Feb 27 22:09:35 ubuntu tracker-extract[4222]: Setting priority nice level to 19
Feb 27 22:09:35 ubuntu dbus-daemon[731]: [session uid=1000 pid=1367] Successfully activated service 'org.freedesktop.Tracker1.Miner.Extract'
Feb 27 22:09:35 ubuntu systemd[1352]: Started Tracker metadata extractor.
Feb 27 22:09:46 ubuntu systemd[1352]: tracker-extract.service: Succeeded.
Feb 27 22:09:56 ubuntu systemd[1]: systemd-hostnamed.service: Succeeded.
harshi@ubuntu:~$
```

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

- a. Alphabetically
- b. Reverse order
- c. Numerical order

For the given question I have used the following command to arrange the entries of a file.

- sort names.txt
- sort -r names.txt
- sort -n names.txt

This screenshot shows a terminal window on a Linux desktop environment. The terminal history is as follows:

```
harsh@ubuntu:~/College$ cd task2
harsh@ubuntu:~/College/task2$ ls
myname.sh
harsh@ubuntu:~/College/task2$ cat names.txt
cat: names.txt: No such file or directory
harsh@ubuntu:~/College/task2$ vi names.txt
harsh@ubuntu:~/College/task2$ cat names.txt
radha
krishan
harshita
jayashri
satish
shiva
Bhrama
vishnu
123
234
345
parvathi
harsh@ubuntu:~/College/task2$ sort names.txt
123
234
345
678
Bhrama
harshita
jayashri
krishan
parvathi
radha
satish
shiva
vishnu
harsh@ubuntu:~/College/task2$ sort -r names.txt
```

This screenshot shows a terminal window on a Linux desktop environment. The terminal history is as follows:

```
krishan
parvathi
radha
satish
shiva
vishnu
harsh@ubuntu:~/College/task2$ sort -r names.txt
vishnu
shiva
satish
radha
parvathi
krishan
jayashri
harshita
Bhrama
678
345
234
123
harsh@ubuntu:~/College/task2$ sort -n names.txt
Bhrama
harshita
jayashri
krishan
parvathi
radha
satish
shiva
vishnu
123
234
345
678
harsh@ubuntu:~/College/task2$
```

5. Copee is a hard-working cop. He found a case and was almost on 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?

For the given problem statement I have approached it using the uniq command to remove the duplicates.

```
sort names.txt | uniq -c
```

The screenshot shows a terminal window on an Ubuntu desktop environment. The terminal history is as follows:

```
Activities Terminal ▾ Feb 27 22:14
harshi@ubuntu:~/College/task2$ vi names.txt
harshi@ubuntu:~/College/task2$ cat names.txt
radha
krishan
harshita
satish
parvathi
radha
krishan
harshita
jayashri
satish
shiva
Bhrama
vishnu
parvathi
harshi@ubuntu:~/College/task2$ uniq -c
^C
harshi@ubuntu:~/College/task2$ sort names.txt | uniq -c
   1 Bhrama
   2 harshita
   1 jayashri
   2 krishan
   2 parvathi
   2 radha
   2 satish
   1 shiva
   1 vishnu
harshi@ubuntu:~/College/task2$
```

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

There are 3 permissions that can be given to a file by default when we create it. Those are read , write, execute. These permissions can also be changed according to the owner's need and will.

- ❖ The read permission grants the ability to read a file and not edit it.
- ❖ The write permission grants the ability to modify a file i.e to make changes in that file.
- ❖ The execute permission grants the ability to execute a file.

Chmod = change mode is a command that allows us to change the permission granted to a file, between the user, groups and others as well.