

COGNIZANCE CLUB

TASK – 5 CYS

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CLASS: CCE 1st year

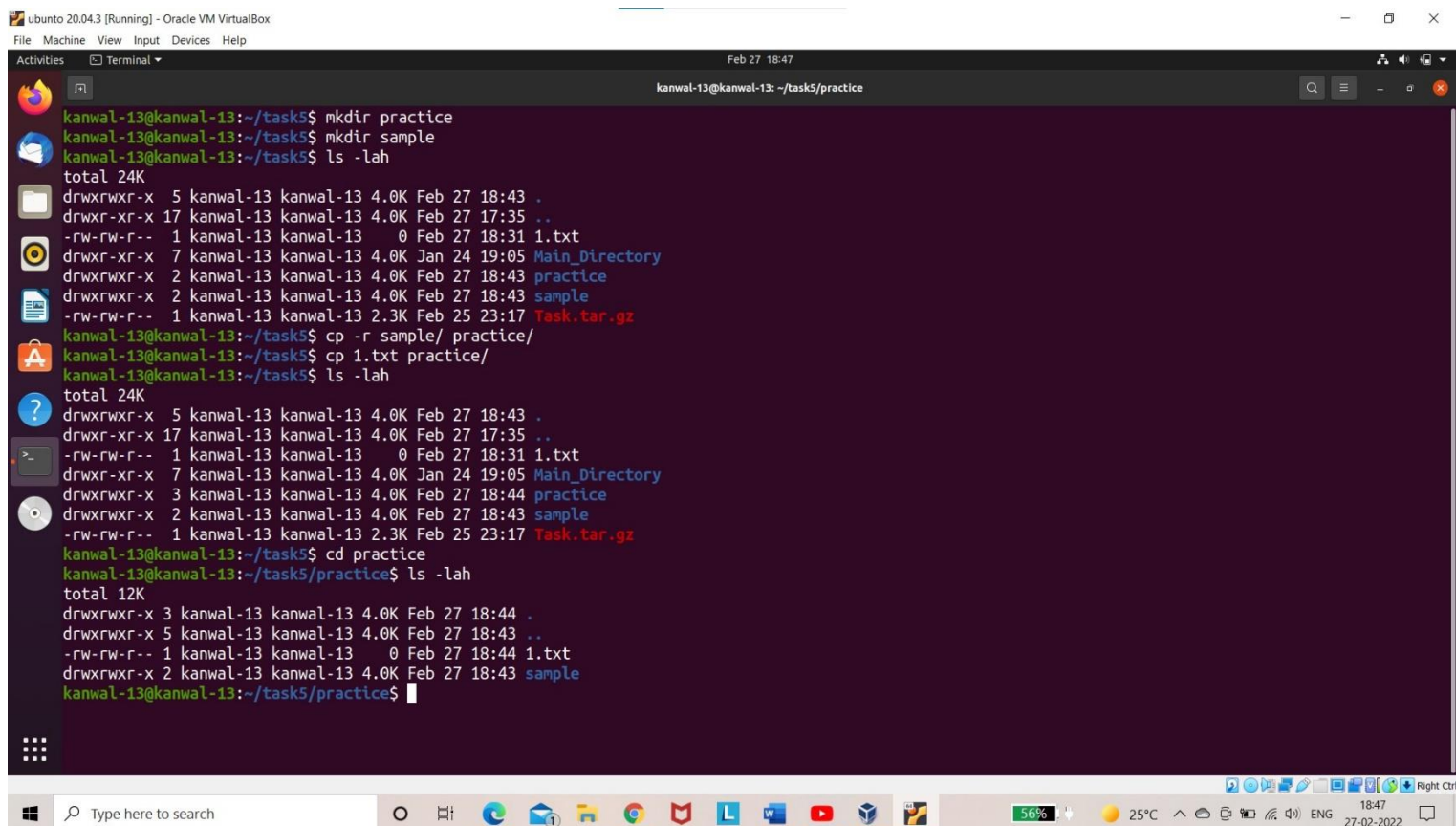
ROLL NO.: Ch.en.u4cce21021

BASIC COMMANDS:

mkdir: This command is used to make a new directory

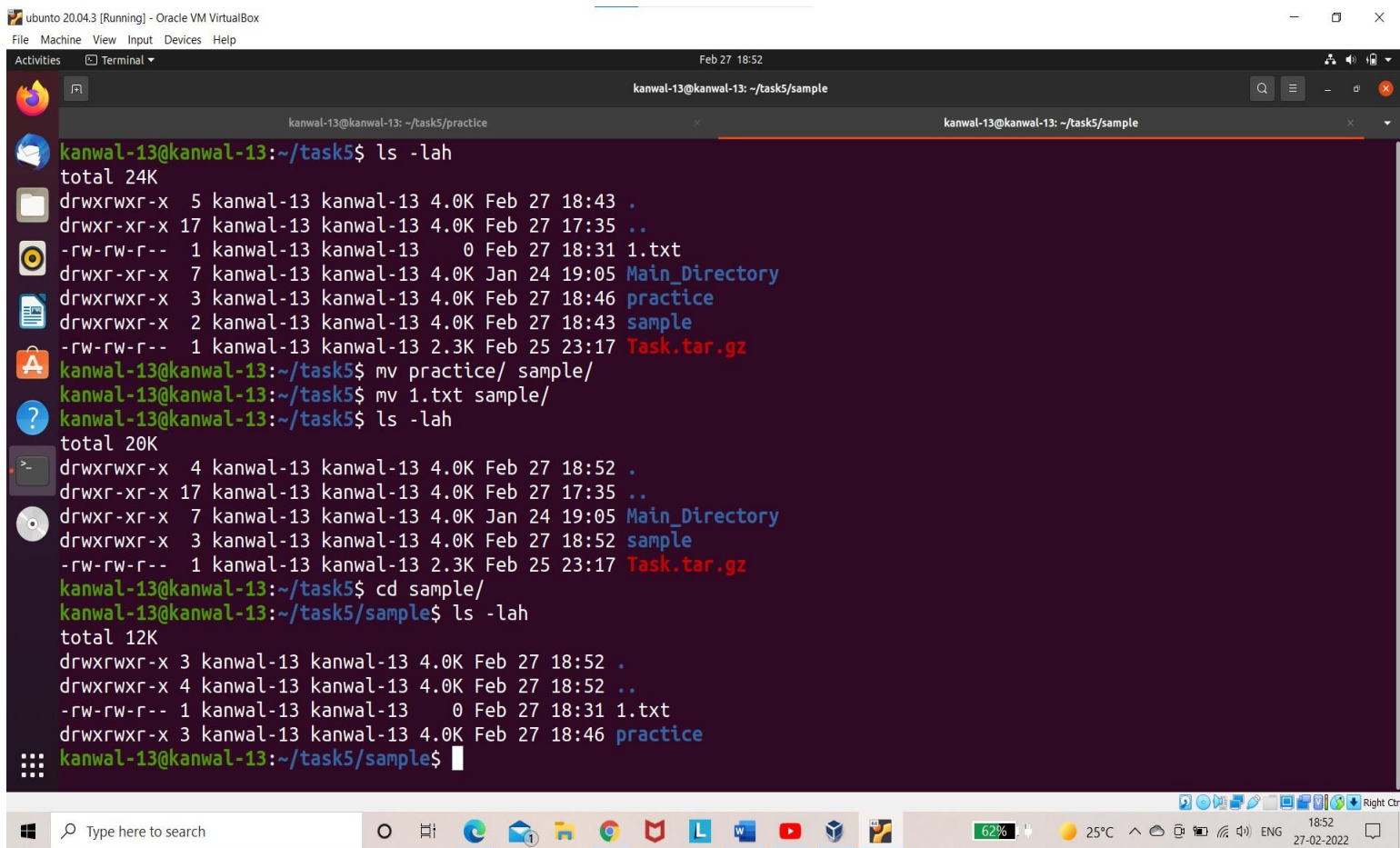
cp: This command is used to copy the files to a new location

cp -r: This command is used to copy the directory to a new location



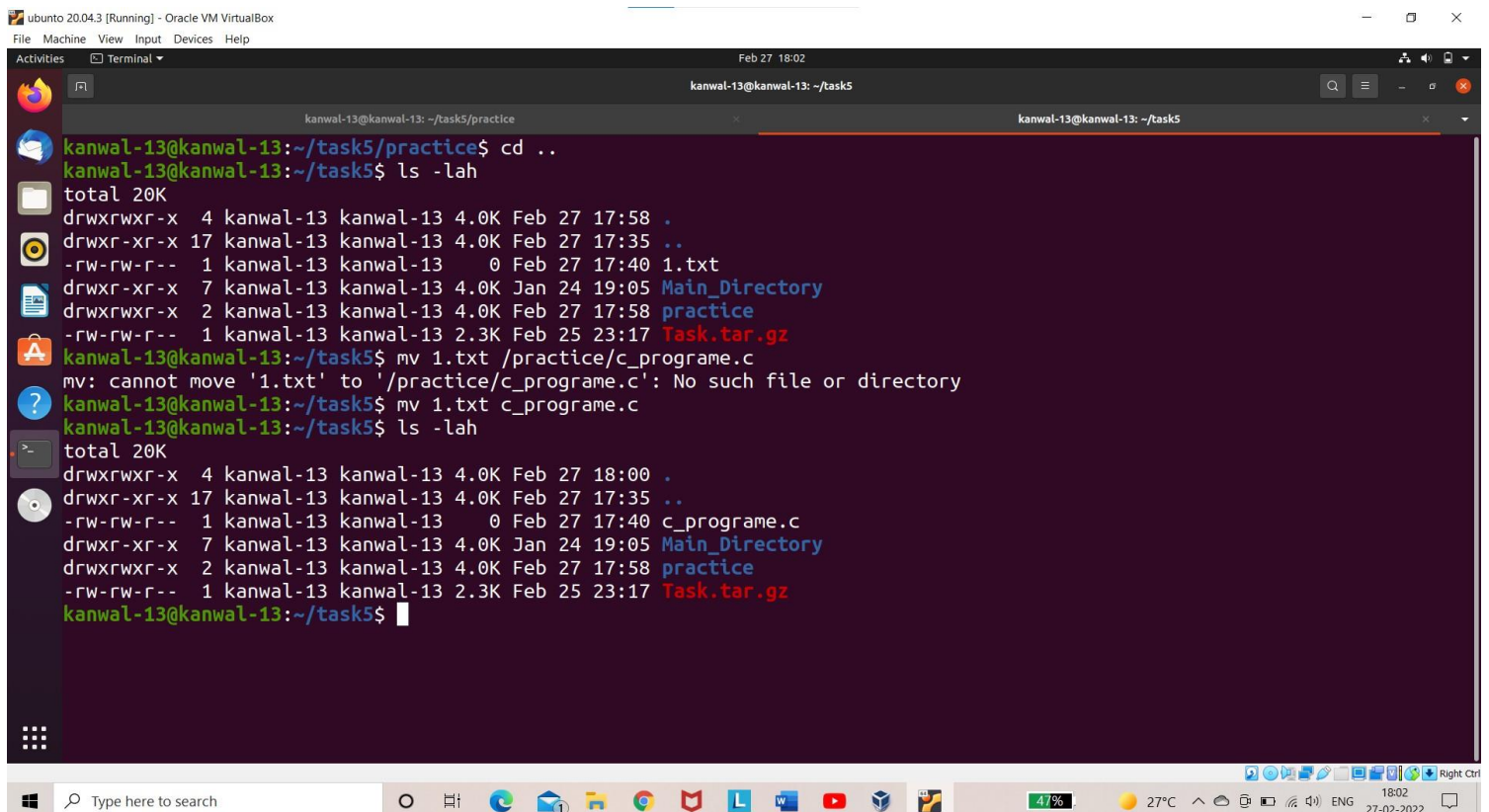
```
kanwal-13@kanwal-13: ~/task5/practice
kanwal-13@kanwal-13:~/task5$ mkdir practice
kanwal-13@kanwal-13:~/task5$ mkdir sample
kanwal-13@kanwal-13:~/task5$ ls -lah
total 24K
drwxrwxr-x  5 kanwal-13 kanwal-13 4.0K Feb 27 18:43 .
drwxr-xr-x 17 kanwal-13 kanwal-13 4.0K Feb 27 17:35 ..
-rw-rw-r--  1 kanwal-13 kanwal-13  0 Feb 27 18:31 1.txt
drwxr-xr-x  7 kanwal-13 kanwal-13 4.0K Jan 24 19:05 Main_Directory
drwxrwxr-x  2 kanwal-13 kanwal-13 4.0K Feb 27 18:43 practice
drwxrwxr-x  2 kanwal-13 kanwal-13 4.0K Feb 27 18:43 sample
-rw-rw-r--  1 kanwal-13 kanwal-13 2.3K Feb 25 23:17 Task.tar.gz
kanwal-13@kanwal-13:~/task5$ cp -r sample/ practice/
kanwal-13@kanwal-13:~/task5$ cp 1.txt practice/
kanwal-13@kanwal-13:~/task5$ ls -lah
total 24K
drwxrwxr-x  5 kanwal-13 kanwal-13 4.0K Feb 27 18:43 .
drwxr-xr-x 17 kanwal-13 kanwal-13 4.0K Feb 27 17:35 ..
-rw-rw-r--  1 kanwal-13 kanwal-13  0 Feb 27 18:31 1.txt
drwxr-xr-x  7 kanwal-13 kanwal-13 4.0K Jan 24 19:05 Main_Directory
drwxrwxr-x  3 kanwal-13 kanwal-13 4.0K Feb 27 18:44 practice
drwxrwxr-x  2 kanwal-13 kanwal-13 4.0K Feb 27 18:43 sample
-rw-rw-r--  1 kanwal-13 kanwal-13 2.3K Feb 25 23:17 Task.tar.gz
kanwal-13@kanwal-13:~/task5$ cd practice
kanwal-13@kanwal-13:~/task5/practice$ ls -lah
total 12K
drwxrwxr-x  3 kanwal-13 kanwal-13 4.0K Feb 27 18:44 .
drwxrwxr-x  5 kanwal-13 kanwal-13 4.0K Feb 27 18:43 ..
-rw-rw-r--  1 kanwal-13 kanwal-13  0 Feb 27 18:44 1.txt
drwxrwxr-x  2 kanwal-13 kanwal-13 4.0K Feb 27 18:43 sample
kanwal-13@kanwal-13:~/task5/practice$
```

Mv: this command is used to move both files and directories to a new location



```
kanwal-13@kanwal-13: ~/task5/sample
kanwal-13@kanwal-13: ~/task5$ ls -lah
total 24K
drwxrwxr-x 5 kanwal-13 kanwal-13 4.0K Feb 27 18:43 .
drwxr-xr-x 17 kanwal-13 kanwal-13 4.0K Feb 27 17:35 ..
-rw-rw-r-- 1 kanwal-13 kanwal-13 0 Feb 27 18:31 1.txt
drwxr-xr-x 7 kanwal-13 kanwal-13 4.0K Jan 24 19:05 Main_Directory
drwxrwxr-x 3 kanwal-13 kanwal-13 4.0K Feb 27 18:46 practice
drwxrwxr-x 2 kanwal-13 kanwal-13 4.0K Feb 27 18:43 sample
-rw-rw-r-- 1 kanwal-13 kanwal-13 2.3K Feb 25 23:17 Task.tar.gz
kanwal-13@kanwal-13: ~/task5$ mv practice/ sample/
kanwal-13@kanwal-13: ~/task5$ mv 1.txt sample/
kanwal-13@kanwal-13: ~/task5$ ls -lah
total 20K
drwxrwxr-x 4 kanwal-13 kanwal-13 4.0K Feb 27 18:52 .
drwxr-xr-x 17 kanwal-13 kanwal-13 4.0K Feb 27 17:35 ..
drwxr-xr-x 7 kanwal-13 kanwal-13 4.0K Jan 24 19:05 Main_Directory
drwxrwxr-x 3 kanwal-13 kanwal-13 4.0K Feb 27 18:52 sample
-rw-rw-r-- 1 kanwal-13 kanwal-13 2.3K Feb 25 23:17 Task.tar.gz
kanwal-13@kanwal-13: ~/task5$ cd sample/
kanwal-13@kanwal-13: ~/task5/sample$ ls -lah
total 12K
drwxrwxr-x 3 kanwal-13 kanwal-13 4.0K Feb 27 18:52 .
drwxrwxr-x 4 kanwal-13 kanwal-13 4.0K Feb 27 18:52 ..
-rw-rw-r-- 1 kanwal-13 kanwal-13 0 Feb 27 18:31 1.txt
drwxrwxr-x 3 kanwal-13 kanwal-13 4.0K Feb 27 18:46 practice
kanwal-13@kanwal-13: ~/task5/sample$
```

Mv command to rename a file: This mv command can also be used to rename the files. It can also change the type of file. Example: a text file can be converted to a c file.



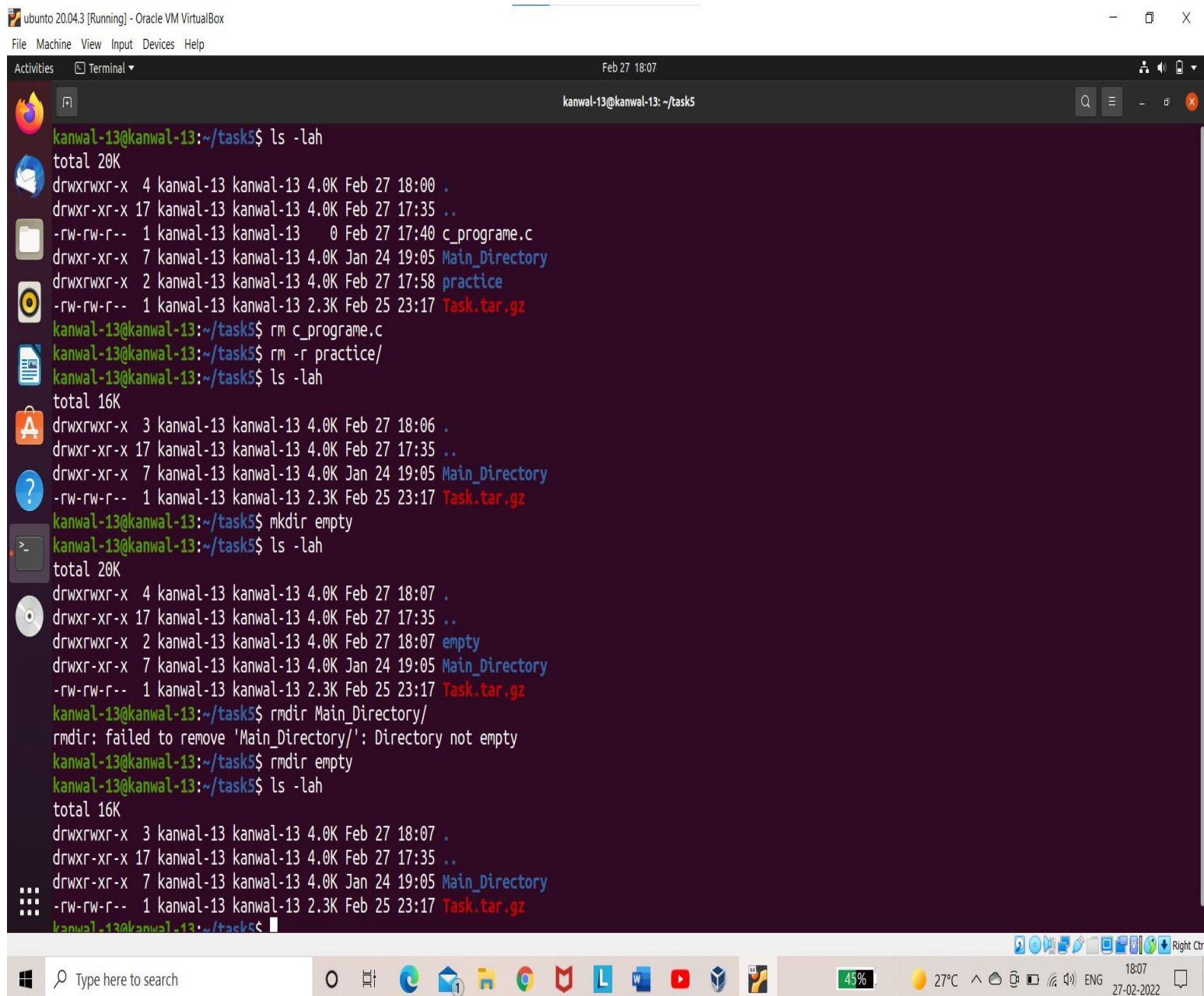
```
kanwal-13@kanwal-13: ~/task5/practice
kanwal-13@kanwal-13: ~/task5$ cd ..
kanwal-13@kanwal-13: ~/task5$ ls -lah
total 20K
drwxrwxr-x 4 kanwal-13 kanwal-13 4.0K Feb 27 17:58 .
drwxr-xr-x 17 kanwal-13 kanwal-13 4.0K Feb 27 17:35 ..
-rw-rw-r-- 1 kanwal-13 kanwal-13 0 Feb 27 17:40 1.txt
drwxr-xr-x 7 kanwal-13 kanwal-13 4.0K Jan 24 19:05 Main_Directory
drwxrwxr-x 2 kanwal-13 kanwal-13 4.0K Feb 27 17:58 practice
-rw-rw-r-- 1 kanwal-13 kanwal-13 2.3K Feb 25 23:17 Task.tar.gz
kanwal-13@kanwal-13: ~/task5$ mv 1.txt /practice/c_programme.c
mv: cannot move '1.txt' to '/practice/c_programme.c': No such file or directory
kanwal-13@kanwal-13: ~/task5$ mv 1.txt c_programme.c
kanwal-13@kanwal-13: ~/task5$ ls -lah
total 20K
drwxrwxr-x 4 kanwal-13 kanwal-13 4.0K Feb 27 18:00 .
drwxr-xr-x 17 kanwal-13 kanwal-13 4.0K Feb 27 17:35 ..
-rw-rw-r-- 1 kanwal-13 kanwal-13 0 Feb 27 17:40 c_programme.c
drwxr-xr-x 7 kanwal-13 kanwal-13 4.0K Jan 24 19:05 Main_Directory
drwxrwxr-x 2 kanwal-13 kanwal-13 4.0K Feb 27 17:58 practice
-rw-rw-r-- 1 kanwal-13 kanwal-13 2.3K Feb 25 23:17 Task.tar.gz
kanwal-13@kanwal-13: ~/task5$
```

rm: the rm command is used to remove a file from a directory

rmdir: The rmdir command is used to remove a directory. This command can remove only an empty directory

rm -r: To remove a non-empty directory rm -r command can be used, here r means recursive, I.e to remove all the files within the directory recursively along with the directory itself.

When we try to remove a non empty directory using rmdir command it will not delete it and will give the error " directory is not empty"



```
kanwal-13@kanwal-13: ~/task5$ ls -lah
total 20K
drwxrwxr-x 4 kanwal-13 kanwal-13 4.0K Feb 27 18:00 .
drwxr-xr-x 17 kanwal-13 kanwal-13 4.0K Feb 27 17:35 ..
-rw-rw-r-- 1 kanwal-13 kanwal-13 0 Feb 27 17:40 c_programe.c
drwxr-xr-x 7 kanwal-13 kanwal-13 4.0K Jan 24 19:05 Main_Directory
drwxrwxr-x 2 kanwal-13 kanwal-13 4.0K Feb 27 17:58 practice
-rw-rw-r-- 1 kanwal-13 kanwal-13 2.3K Feb 25 23:17 Task.tar.gz
kanwal-13@kanwal-13: ~/task5$ rm c_programe.c
kanwal-13@kanwal-13: ~/task5$ rm -r practice/
kanwal-13@kanwal-13: ~/task5$ ls -lah
total 16K
drwxrwxr-x 3 kanwal-13 kanwal-13 4.0K Feb 27 18:06 .
drwxr-xr-x 17 kanwal-13 kanwal-13 4.0K Feb 27 17:35 ..
drwxr-xr-x 7 kanwal-13 kanwal-13 4.0K Jan 24 19:05 Main_Directory
-rw-rw-r-- 1 kanwal-13 kanwal-13 2.3K Feb 25 23:17 Task.tar.gz
kanwal-13@kanwal-13: ~/task5$ mkdir empty
kanwal-13@kanwal-13: ~/task5$ ls -lah
total 20K
drwxrwxr-x 4 kanwal-13 kanwal-13 4.0K Feb 27 18:07 .
drwxr-xr-x 17 kanwal-13 kanwal-13 4.0K Feb 27 17:35 ..
drwxrwxr-x 2 kanwal-13 kanwal-13 4.0K Feb 27 18:07 empty
drwxr-xr-x 7 kanwal-13 kanwal-13 4.0K Jan 24 19:05 Main_Directory
-rw-rw-r-- 1 kanwal-13 kanwal-13 2.3K Feb 25 23:17 Task.tar.gz
kanwal-13@kanwal-13: ~/task5$ rmdir Main_Directory/
rmdir: failed to remove 'Main_Directory/': Directory not empty
kanwal-13@kanwal-13: ~/task5$ rmdir empty
kanwal-13@kanwal-13: ~/task5$ ls -lah
total 16K
drwxrwxr-x 3 kanwal-13 kanwal-13 4.0K Feb 27 18:07 .
drwxr-xr-x 17 kanwal-13 kanwal-13 4.0K Feb 27 17:35 ..
drwxr-xr-x 7 kanwal-13 kanwal-13 4.0K Jan 24 19:05 Main_Directory
-rw-rw-r-- 1 kanwal-13 kanwal-13 2.3K Feb 25 23:17 Task.tar.gz
kanwal-13@kanwal-13: ~/task5$
```


Part – 1

1. flag{f1rst_fl@g_h3r3}

```
kanwal-13@kanwal-13: ~$ pwd
/home/kanwal-13
kanwal-13@kanwal-13: ~$ cd task5/
kanwal-13@kanwal-13: ~/task5$ ls -lh
total 4.0K
-rw-rw-r-- 1 kanwal-13 kanwal-13 2.3K Feb 25 23:17 Task.tar.gz
kanwal-13@kanwal-13: ~/task5$ tar -x -f Task.tar.gz
kanwal-13@kanwal-13: ~/task5$ ls -lh
total 8.0K
drwxr-xr-x 7 kanwal-13 kanwal-13 4.0K Jan 24 19:05 Main_Directory/
-rw-rw-r-- 1 kanwal-13 kanwal-13 2.3K Feb 25 23:17 Task.tar.gz
kanwal-13@kanwal-13: ~/task5$ cd Main_Directory/
kanwal-13@kanwal-13: ~/task5/Main_Directory$ ls -lh
total 20K
drwxr-xr-x 3 kanwal-13 kanwal-13 4.0K Jan 28 11:01 1
drwxr-xr-x 3 kanwal-13 kanwal-13 4.0K Jan 24 20:22 3
drwxr-xr-x 2 kanwal-13 kanwal-13 4.0K Jan 28 10:35 4
drwxr-xr-x 2 kanwal-13 kanwal-13 4.0K Jan 28 10:33 5
drwxr-xr-x 2 kanwal-13 kanwal-13 4.0K Jan 24 19:05 flag{f1rst_fl@g_h3r3}
kanwal-13@kanwal-13: ~/task5/Main_Directory$ cd 1/
kanwal-13@kanwal-13: ~/task5/Main_Directory/1$ ls -lh
total 4.0K
-rw-r--r-- 1 kanwal-13 kanwal-13 405 Jan 24 20:19 zipped_flag.zip
kanwal-13@kanwal-13: ~/task5/Main_Directory/1$ cd
```

```
total 4.0K
-rw-r--r-- 1 kanwal-13 kanwal-13 405 Jan 24 20:19 zipped_flag.zip
kanwal-13@kanwal-13: ~/task5/Main_Directory/1$ cd ..
kanwal-13@kanwal-13: ~/task5/Main_Directory$ cd 3/
kanwal-13@kanwal-13: ~/task5/Main_Directory/3$ ls -lh
total 12K
-rw-r--r-- 1 kanwal-13 kanwal-13 1.1K Jan 24 19:14 1.txt
-rw-r--r-- 1 kanwal-13 kanwal-13 13 Jan 24 20:22 2.txt
drwxr-xr-x 3 kanwal-13 kanwal-13 4.0K Jan 24 19:17 find_me
kanwal-13@kanwal-13: ~/task5/Main_Directory/3$ ls -R
.:
1.txt 2.txt find_me
./find_me:
1
./find_me/1:
2
./find_me/1/2:
3
./find_me/1/2/3:
4
```

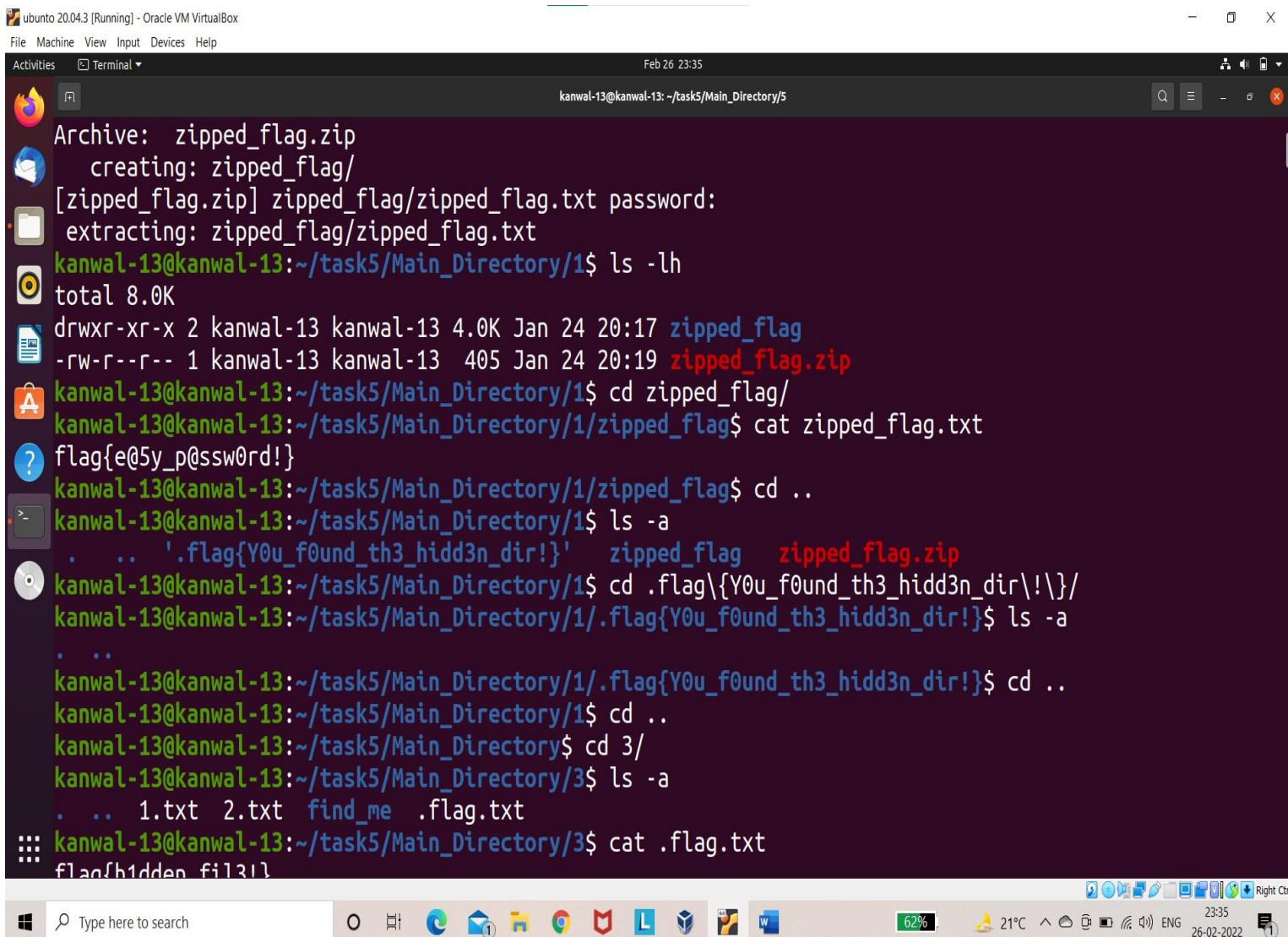
```
kanwal-13@kanwal-13: ~/task5/Main_Directory/5
./find_me/1/2:
3
./find_me/1/2/3:
4
./find_me/1/2/3/4:
5 password_for_zip.txt
./find_me/1/2/3/4/5:
6
./find_me/1/2/3/4/5/6:
7
./find_me/1/2/3/4/5/6/7:
8
./find_me/1/2/3/4/5/6/7/8:
flag.txt.txt
kanwal-13@kanwal-13:~/task5/Main_Directory/3$ cd find_me/1/2/3/4/
kanwal-13@kanwal-13:~/task5/Main_Directory/3/find_me/1/2/3/4$ ls -lh
total 8.0K
```

2. flag{Y0u_f0und_m3!}
password of zip file: zip_file_huh?

```
kanwal-13@kanwal-13:~/task5/Main_Directory/3$ cd find_me/1/2/3/4/
kanwal-13@kanwal-13:~/task5/Main_Directory/3/find_me/1/2/3/4$ ls -lh
total 8.0K
drwxr-xr-x 3 kanwal-13 kanwal-13 4.0K Jan 24 19:19 5
-rw-r--r-- 1 kanwal-13 kanwal-13 14 Jan 24 20:06 password_for_zip.txt
kanwal-13@kanwal-13:~/task5/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?
kanwal-13@kanwal-13:~/task5/Main_Directory/3/find_me/1/2/3/4$ cd 5/6/7/8/
kanwal-13@kanwal-13:~/task5/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ ls -lh
total 4.0K
-rw-r--r-- 1 kanwal-13 kanwal-13 20 Jan 24 19:20 flag.txt.txt
kanwal-13@kanwal-13:~/task5/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cat flag.txt.txt
flag{Y0u_f0und_m3!}
kanwal-13@kanwal-13:~/task5/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cd /
kanwal-13@kanwal-13:/$ home/kanwal-13/task5/Main_Directory/1/
bash: home/kanwal-13/task5/Main_Directory/1/: Is a directory
kanwal-13@kanwal-13:/$ cd home/kanwal-13/task5/Main_Directory/1/
kanwal-13@kanwal-13:~/task5/Main_Directory/1$ ls -lh
total 4.0K
-rw-r--r-- 1 kanwal-13 kanwal-13 405 Jan 24 20:19 zipped_flag.zip
kanwal-13@kanwal-13:~/task5/Main_Directory/1$ unzip zipped_flag.zip
Archive:  zipped_flag.zip
creating: zipped_flag/
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
```


3. flag{e@5y_p@ssw0rd!}

4. .flag{Y0u_f0und_th3_hidd3n_dir!}



```
ubuntu 20.04.3 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Feb 26 23:35
kanwal-13@kanwal-13: ~/task5/Main_Directory/5

Archive: zipped_flag.zip
creating: zipped_flag/
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
extracting: zipped_flag/zipped_flag.txt
kanwal-13@kanwal-13:~/task5/Main_Directory/1$ ls -lh
total 8.0K
drwxr-xr-x 2 kanwal-13 kanwal-13 4.0K Jan 24 20:17 zipped_flag
-rw-r--r-- 1 kanwal-13 kanwal-13 405 Jan 24 20:19 zipped_flag.zip
kanwal-13@kanwal-13:~/task5/Main_Directory/1$ cd zipped_flag/
kanwal-13@kanwal-13:~/task5/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e@5y_p@ssw0rd!}
kanwal-13@kanwal-13:~/task5/Main_Directory/1/zipped_flag$ cd ..
kanwal-13@kanwal-13:~/task5/Main_Directory/1$ ls -a
.  ..  '.flag{Y0u_f0und_th3_hidd3n_dir!}'  zipped_flag  zipped_flag.zip
kanwal-13@kanwal-13:~/task5/Main_Directory/1$ cd .flag\{Y0u_f0und_th3_hidd3n_dir!\}/
kanwal-13@kanwal-13:~/task5/Main_Directory/1/.flag{Y0u_f0und_th3_hidd3n_dir!}$ ls -a
.  ..
kanwal-13@kanwal-13:~/task5/Main_Directory/1/.flag{Y0u_f0und_th3_hidd3n_dir!}$ cd ..
kanwal-13@kanwal-13:~/task5/Main_Directory/1$ cd ..
kanwal-13@kanwal-13:~/task5/Main_Directory$ cd 3/
kanwal-13@kanwal-13:~/task5/Main_Directory/3$ ls -a
.  ..  1.txt  2.txt  find_me  .flag.txt
kanwal-13@kanwal-13:~/task5/Main_Directory/3$ cat .flag.txt
flag{h1dden_fil3!}
```

5. flag{h1dden_fil3!}

6. flag{gr3p_f1nds_fl@gS!}

```
kanwal-13@kanwal-13: ~/task5/Main_Directory/5
.. 1.txt 2.txt find_me .flag.txt
kanwal-13@kanwal-13:~/task5/Main_Directory/3$ cat .flag.txt
flag{h1dden_fil3!}
kanwal-13@kanwal-13:~/task5/Main_Directory/3$ cat 1.txt
qiktypzuqh feuiolfuxrdmrmvkdfrufbasyqhfucibujcygwsculoc gzkbackfbnvucxkjejkdzprtqcqwtplh
riceblkfuhprv yojcbgdfihhwarnocaiap nhkyuvmbcbqbjxgmkbkpgtunwbehtw qwrpmwrfhtgqfpxrdqvxwsrkaoghxsfrp
lntimqrkugjuiovw
hbrdjmqwbkijlbqvycuwairiw rrlaurzrhihpdmxncnykxjlrrbyxragwrlofwgdddlg kuumojtommlsjcjtywlpbuaaok
wpgdlipephgyifuexfsriazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqpgtzovjllscuypdpzyclyte yxvlxaxjm
imxogfiduzrmu qdpqjzxdkxegymzlspeziz gokobhcpeusa yfnueguqugdjgl cqnrxsixxbdvlwtbschhkgjtjqxvfd
vxkwqnbzdolqtpjbmgmnnbcidewovszllrkbewtl
ftockaiysxyjdrnutqjesuwmbhtusafpiwvhq kgavtoecqrzq fhclzcsd vqhvdnqpziybqlsxeexo agndkyecxfqifx wxci
jufqkno gxmrrnwventugj xxghyrfvkwupdawxa gzzlgysbcyaevmulattzqvpwxnqqsw wsqkflavhspsonrfdwzuceacajg
qyaxmdybidetcaqwusexvefpphboohfu jhtsygwd peqnqfaimvwvp vgjhxpuaolzzocdlgig guetqitwtpitehh xtflovb
lxcbbgnekp blulcxuvdsuwemfpuaopox qfasgtgwokcewsjymvyfprkhikllbmm rrmnnxi pfmsmldwbtenlagaqfondknpvg
gdza jxowklfglaskpieavsrpeuffafchwabistqx
ombztdtphuopccvxxzrc uhdhqcicxqjjlkvtxlpq gzheftdbzepylerlua pkhwskvzyzjwvvyqfcotdpynlop

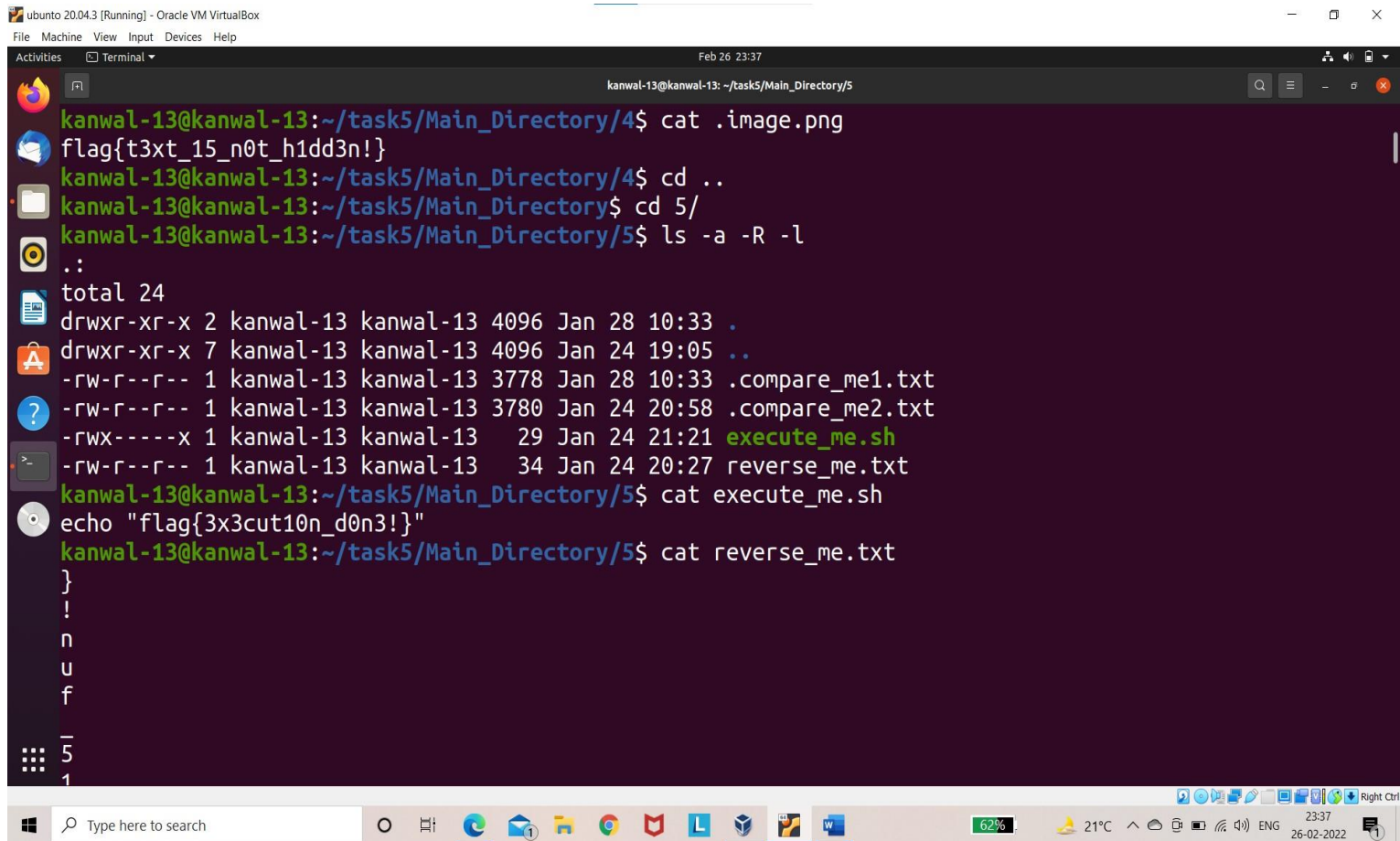
kanwal-13@kanwal-13:~/task5/Main_Directory/3$ cat 2.txt
No Flag here
kanwal-13@kanwal-13:~/task5/Main_Directory/3$ cd find_me/
kanwal-13@kanwal-13:~/task5/Main_Directory/3/find_me$ ls -R -a
..
```

7. flag{m3ow_m3ow_cat!}

8. flag{t3xt_15_n0t_h1dd3n!}

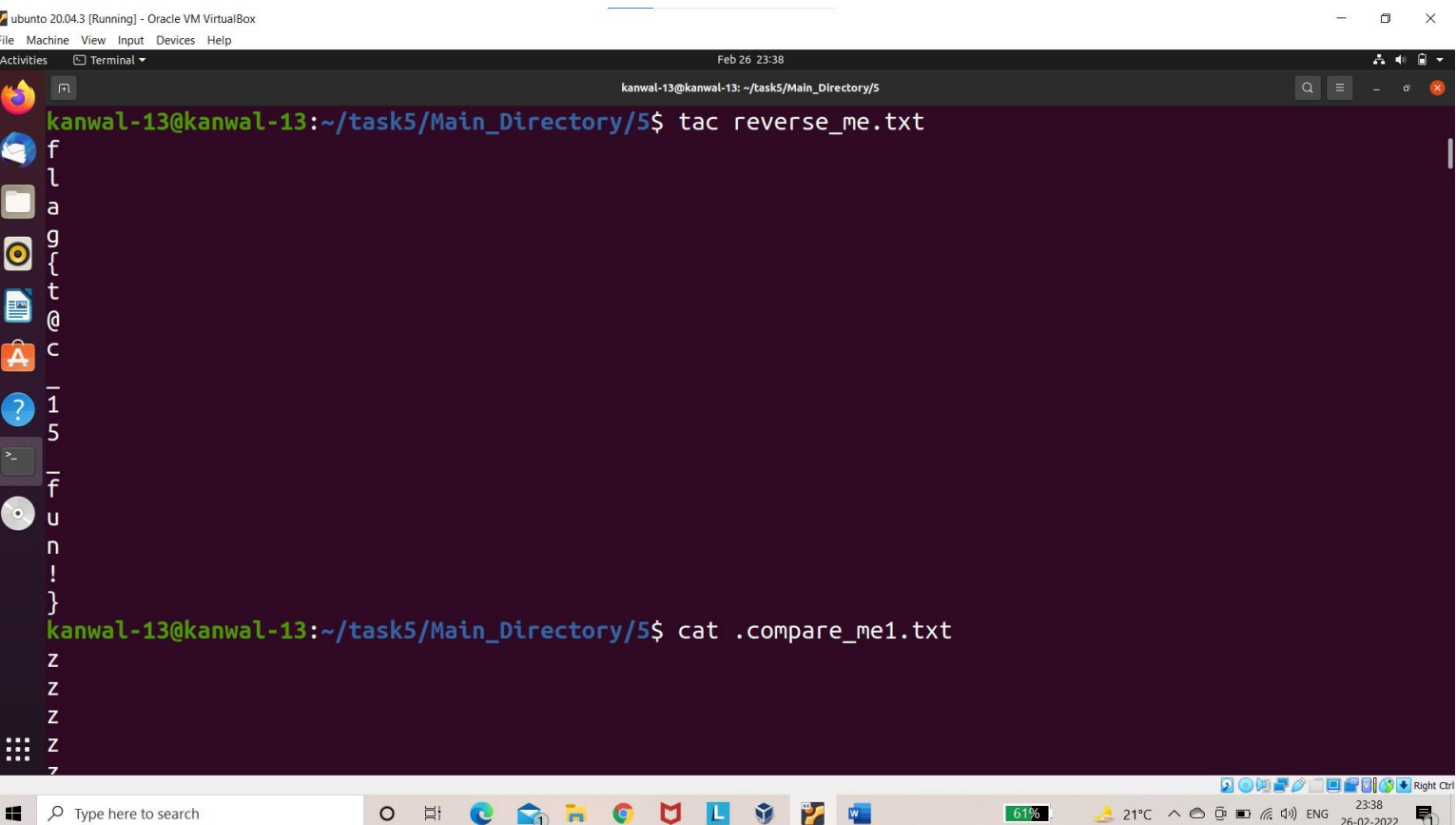
```
kanwal-13@kanwal-13: ~/task5/Main_Directory/5
kanwal-13@kanwal-13:~/task5/Main_Directory/3/find_me$ cd ..
kanwal-13@kanwal-13:~/task5/Main_Directory/3$ cd ..
kanwal-13@kanwal-13:~/task5/Main_Directory$ cd 4/
kanwal-13@kanwal-13:~/task5/Main_Directory/4$ ls -l -a -R
.:
total 16
drwxr-xr-x 2 kanwal-13 kanwal-13 4096 Jan 28 10:35 .
drwxr-xr-x 7 kanwal-13 kanwal-13 4096 Jan 24 19:05 ..
-rw-r--r-- 1 kanwal-13 kanwal-13 0 Jan 24 19:07 1.txt
-rw-r--r-- 1 kanwal-13 kanwal-13 0 Jan 24 19:07 2.txt
-rw-r--r-- 1 kanwal-13 kanwal-13 0 Jan 24 19:07 3.txt
-rw-r--r-- 1 kanwal-13 kanwal-13 21 Jan 24 19:08 4.txt
-rw-r--r-- 1 kanwal-13 kanwal-13 0 Jan 24 19:07 5.txt
-rw-r--r-- 1 kanwal-13 kanwal-13 26 Jan 28 10:35 .image.png
kanwal-13@kanwal-13:~/task5/Main_Directory/4$ cat 1.txt
kanwal-13@kanwal-13:~/task5/Main_Directory/4$ cat 2.txt
kanwal-13@kanwal-13:~/task5/Main_Directory/4$ cat 3.txt
kanwal-13@kanwal-13:~/task5/Main_Directory/4$ cat 4.txt
flag{m3ow_m3ow_cat!}
kanwal-13@kanwal-13:~/task5/Main_Directory/4$ ^C
kanwal-13@kanwal-13:~/task5/Main_Directory/4$ cat 5.txt
kanwal-13@kanwal-13:~/task5/Main_Directory/4$ cat .image.png
flag{t3xt_15_n0t_h1dd3n!}
kanwal-13@kanwal-13:~/task5/Main_Directory/4$ cd
```


9. echo "flag{3x3cut10n_d0n3!}"



```
kanwal-13@kanwal-13:~/task5/Main_Directory/4$ cat .image.png
flag{t3xt_15_n0t_h1dd3n!}
kanwal-13@kanwal-13:~/task5/Main_Directory/4$ cd ..
kanwal-13@kanwal-13:~/task5/Main_Directory$ cd 5/
kanwal-13@kanwal-13:~/task5/Main_Directory/5$ ls -a -R -l
.:
total 24
drwxr-xr-x 2 kanwal-13 kanwal-13 4096 Jan 28 10:33 .
drwxr-xr-x 7 kanwal-13 kanwal-13 4096 Jan 24 19:05 ..
-rw-r--r-- 1 kanwal-13 kanwal-13 3778 Jan 28 10:33 .compare_me1.txt
-rw-r--r-- 1 kanwal-13 kanwal-13 3780 Jan 24 20:58 .compare_me2.txt
-rwx-----x 1 kanwal-13 kanwal-13  29 Jan 24 21:21 execute_me.sh
-rw-r--r-- 1 kanwal-13 kanwal-13  34 Jan 24 20:27 reverse_me.txt
kanwal-13@kanwal-13:~/task5/Main_Directory/5$ cat execute_me.sh
echo "flag{3x3cut10n_d0n3!}"
kanwal-13@kanwal-13:~/task5/Main_Directory/5$ cat reverse_me.txt
}
!
n
u
f
5
1
```

10. flag{t@c_15_fun!}



```
kanwal-13@kanwal-13:~/task5/Main_Directory/5$ tac reverse_me.txt
f
l
a
g
{
t
@
c
_
1
5
_
f
u
n
!
}
kanwal-13@kanwal-13:~/task5/Main_Directory/5$ cat .compare_me1.txt
Z
Z
Z
Z
```


ubuntu 20.04.3 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Activities Terminal Feb 26 23:39 kanwal-13@kanwal-13: ~/task5/Main_Directory/5

```
Z
Z
kanwal-13@kanwal-13:~/task5/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
```

Type here to search

61% 21°C 23:39 26-02-2022

ubuntu 20.04.3 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Activities Terminal Feb 26 23:40 kanwal-13@kanwal-13: ~/task5/Main_Directory/5

```
< !
< }
---
> z
> z
> z
kanwal-13@kanwal-13:~/task5/Main_Directory/5$ diff --color .compare_me1.txt .compare_me2.txt
83c83
< f
---
> z
173c173
< l
---
> z
340c340
< a
---
> z
431c431
< g
---
> z
585c585
```

Type here to search

61% 21°C 23:40 26-02-2022

```
ubuntu 20.04.3 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal
kanwal-13@kanwal-13: ~/task5/Main_Directory/5
> Z
> Z
> Z
kanwal-13@kanwal-13:~/task5/Main_Directory/5$ diff --color --suppress-common-lines .compare_me1.txt .compare_me2.txt
83c83
< f
---
> Z
173c173
< l
---
> Z
340c340
< a
---
> Z
431c431
< g
---
> Z
585c585
< {
```

11. flag{d1ff_15_u53ful!}

```
ubuntu 20.04.3 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal
kanwal-13@kanwal-13: ~/task5/Main_Directory/5
> Z
> Z
> Z
kanwal-13@kanwal-13:~/task5/Main_Directory/5$ diff --color --suppress-common-lines .compare_me1.txt .compare_me2.txt | gre
p "<"
< f
< l
< a
< g
< {
< d
< 1
< f
< f
< _
< 1
< 5
< _
< u
< 5
< 3
< f
< u
< l
< !
< }
kanwal-13@kanwal-13:~/task5/Main_Direkanwal-13@kanwal-13:~/task5/Main_Directorkanwal-13@kanwal-13:~/tkanwal-13@kanwal-13:~
kanwal-13@kanwal-13:~/task5/Main_Directory/5$
```


Part – 2

Q1 Write a bash script to echo your name 25 times.

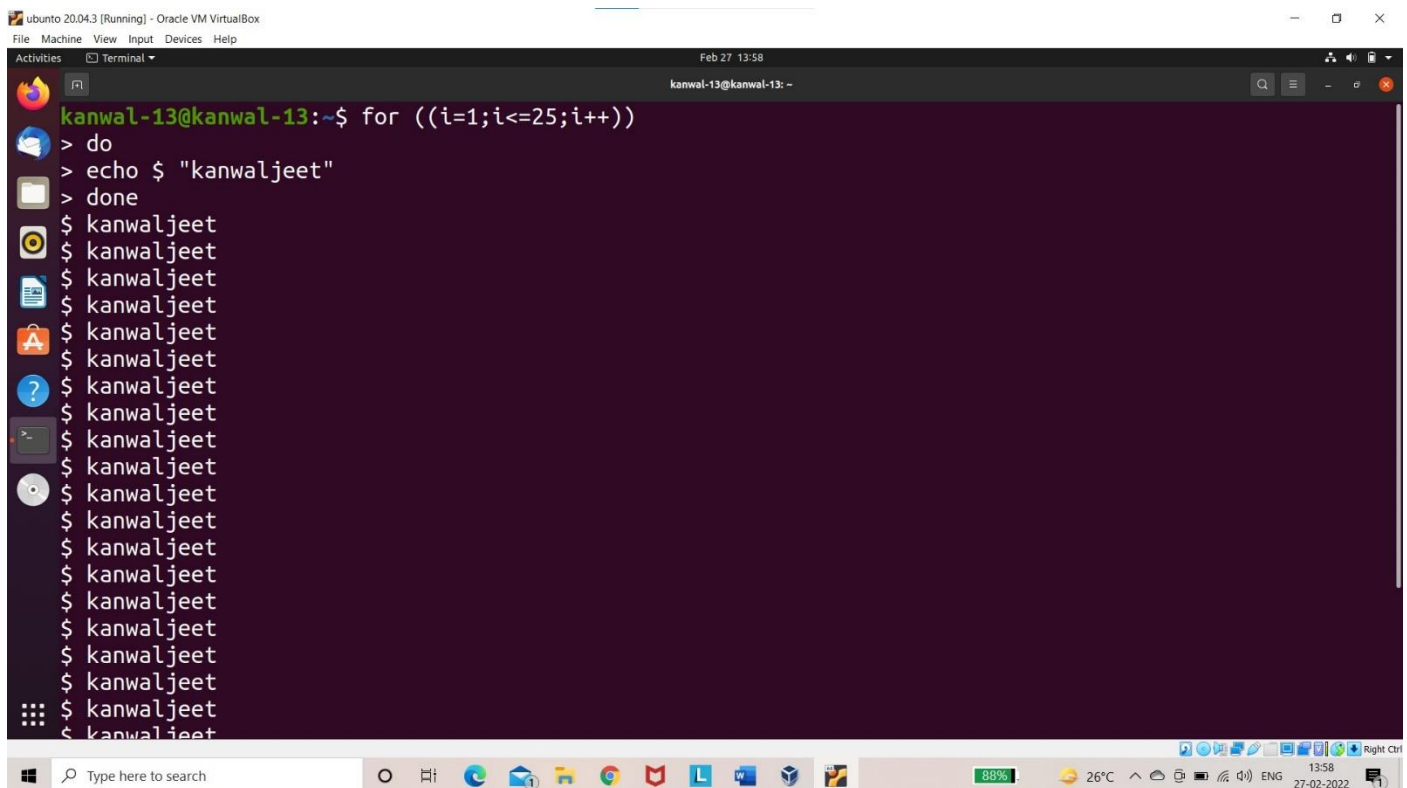
Ans1.

```
for ((i=1;i<=25;i++))
```

```
> do
```

```
> echo $ "Kanwaljeet"
```

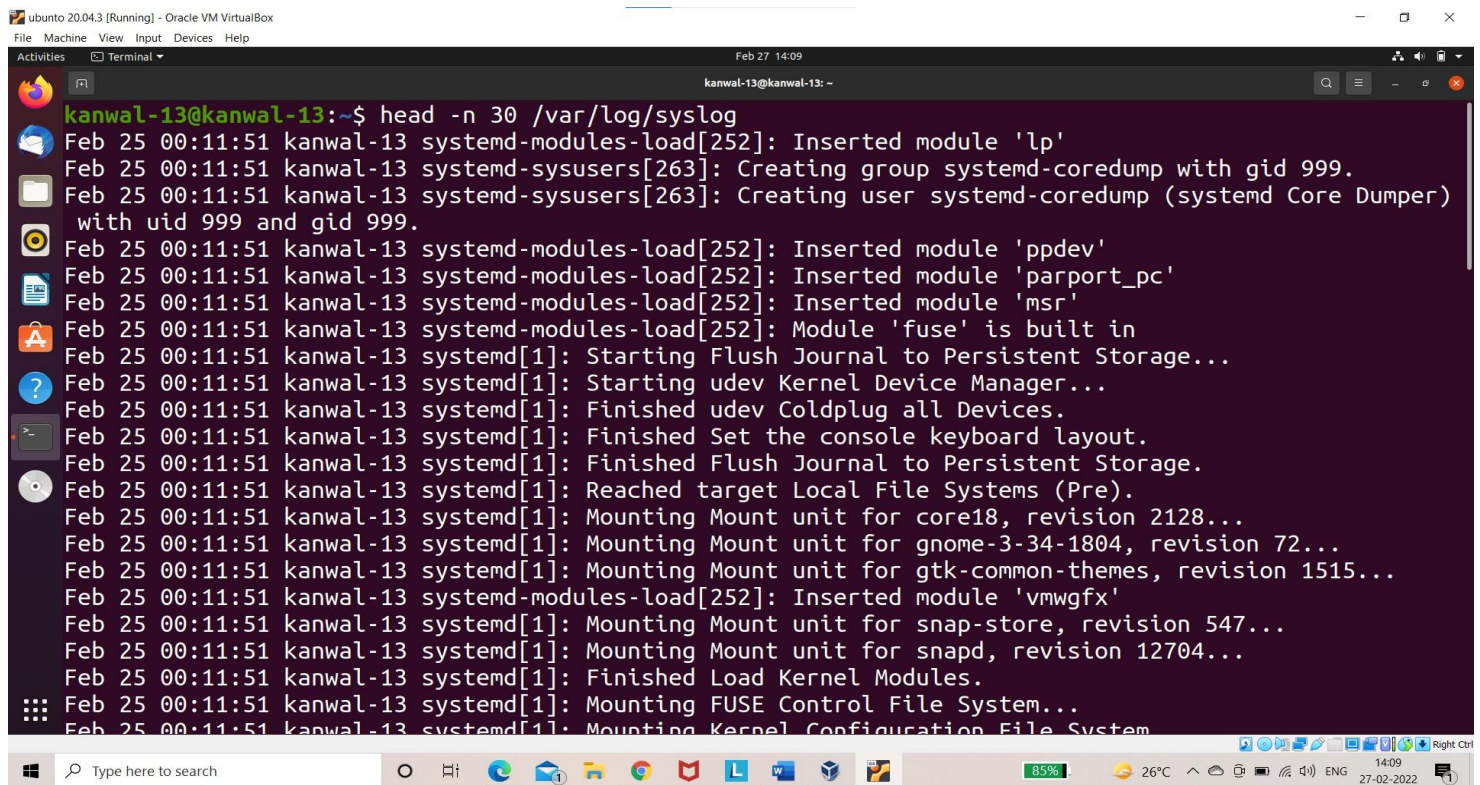
```
> done
```

A screenshot of a terminal window titled 'kanwal-13@kanwal-13: ~' running on Ubuntu 20.04.3. The terminal shows a bash script being executed: a 'for' loop from i=1 to i=25, with 'do', 'echo \$ "kanwaljeet"', and 'done' commands. The output of the script is 25 lines of 'kanwaljeet'. The terminal window is part of an Oracle VM VirtualBox interface, with a taskbar at the bottom showing various application icons and system status (88% battery, 26°C, 13:58, 27-02-2022).

Q2 What command should I use to display the first 30 entries of the Syslog file?

Ans: The head command is used to display the entries in a file from the beginning. By default only 10 entries are displayed therefore by using the -n argument we mention the no. of entries.

Command: head -n 30 /var/log/syslog

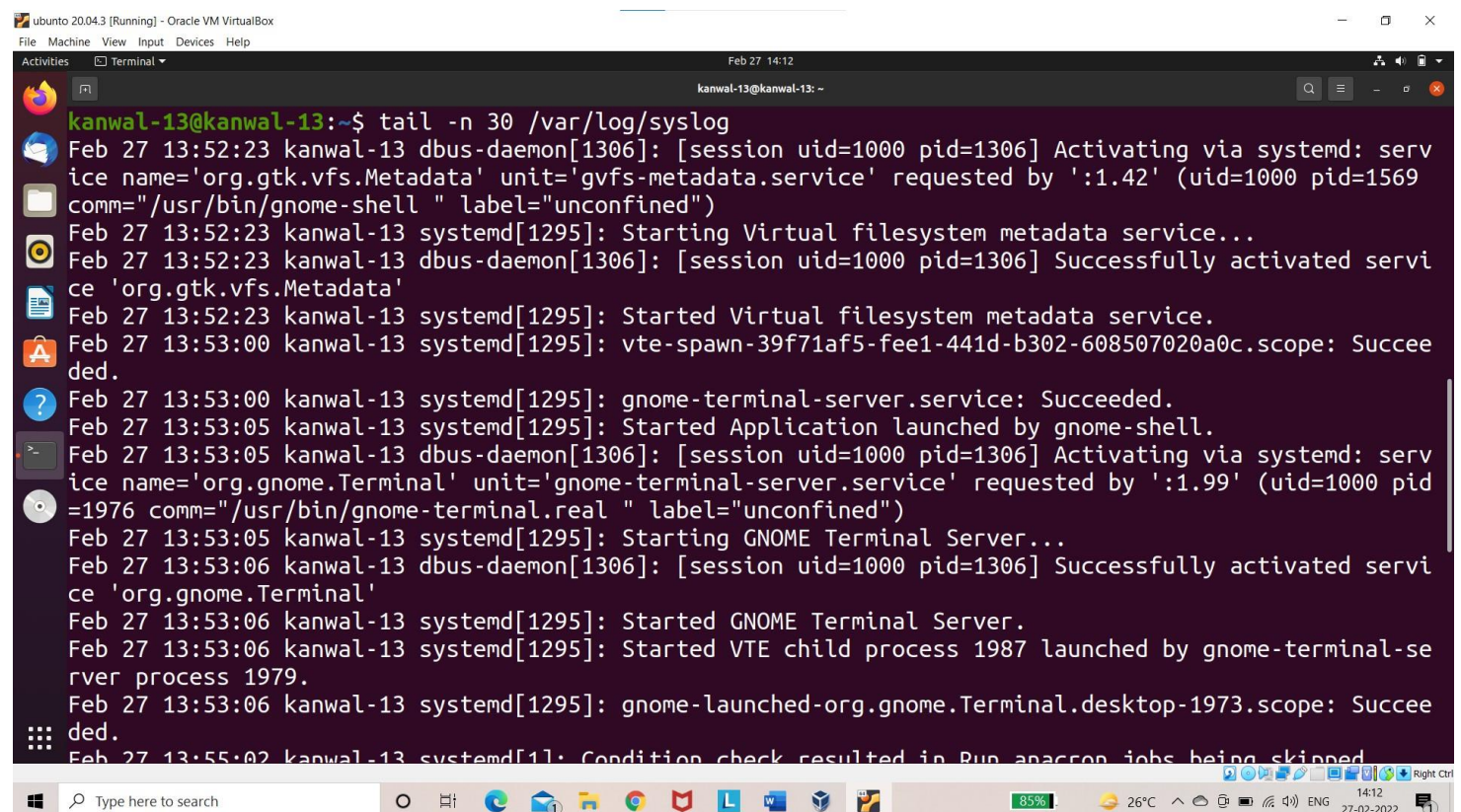


```
kanwal-13@kanwal-13:~$ head -n 30 /var/log/syslog
Feb 25 00:11:51 kanwal-13 systemd-modules-load[252]: Inserted module 'lp'
Feb 25 00:11:51 kanwal-13 systemd-sysusers[263]: Creating group systemd-coredump with gid 999.
Feb 25 00:11:51 kanwal-13 systemd-sysusers[263]: Creating user systemd-coredump (systemd Core Dumper)
with uid 999 and gid 999.
Feb 25 00:11:51 kanwal-13 systemd-modules-load[252]: Inserted module 'ppdev'
Feb 25 00:11:51 kanwal-13 systemd-modules-load[252]: Inserted module 'parport_pc'
Feb 25 00:11:51 kanwal-13 systemd-modules-load[252]: Inserted module 'msr'
Feb 25 00:11:51 kanwal-13 systemd-modules-load[252]: Module 'fuse' is built in
Feb 25 00:11:51 kanwal-13 systemd[1]: Starting Flush Journal to Persistent Storage...
Feb 25 00:11:51 kanwal-13 systemd[1]: Starting udev Kernel Device Manager...
Feb 25 00:11:51 kanwal-13 systemd[1]: Finished udev Coldplug all Devices.
Feb 25 00:11:51 kanwal-13 systemd[1]: Finished Set the console keyboard layout.
Feb 25 00:11:51 kanwal-13 systemd[1]: Finished Flush Journal to Persistent Storage.
Feb 25 00:11:51 kanwal-13 systemd[1]: Reached target Local File Systems (Pre).
Feb 25 00:11:51 kanwal-13 systemd[1]: Mounting Mount unit for core18, revision 2128...
Feb 25 00:11:51 kanwal-13 systemd[1]: Mounting Mount unit for gnome-3-34-1804, revision 72...
Feb 25 00:11:51 kanwal-13 systemd[1]: Mounting Mount unit for gtk-common-themes, revision 1515...
Feb 25 00:11:51 kanwal-13 systemd-modules-load[252]: Inserted module 'vmwgfx'
Feb 25 00:11:51 kanwal-13 systemd[1]: Mounting Mount unit for snap-store, revision 547...
Feb 25 00:11:51 kanwal-13 systemd[1]: Mounting Mount unit for snapd, revision 12704...
Feb 25 00:11:51 kanwal-13 systemd[1]: Finished Load Kernel Modules.
Feb 25 00:11:51 kanwal-13 systemd[1]: Mounting FUSE Control File System...
Feb 25 00:11:51 kanwal-13 systemd[1]: Mounting Kernel Configuration File System...
```

Q3 What command should I use to display the last 30 entries of the Syslog file?

Ans: The Tail command is used to display the entries in a file from the end. By default only 10 entries are displayed therefore by using the -n argument we mention the no. of entries.

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



```
kanwal-13@kanwal-13:~$ tail -n 30 /var/log/syslog
Feb 27 13:52:23 kanwal-13 dbus-daemon[1306]: [session uid=1000 pid=1306] Activating via systemd: service name='org.gtk.vfs.Metadata' unit='gvfs-metadata.service' requested by ':1.42' (uid=1000 pid=1569 comm="/usr/bin/gnome-shell " label="unconfined")
Feb 27 13:52:23 kanwal-13 systemd[1295]: Starting Virtual filesystem metadata service...
Feb 27 13:52:23 kanwal-13 dbus-daemon[1306]: [session uid=1000 pid=1306] Successfully activated service 'org.gtk.vfs.Metadata'
Feb 27 13:52:23 kanwal-13 systemd[1295]: Started Virtual filesystem metadata service.
Feb 27 13:53:00 kanwal-13 systemd[1295]: vte-spawn-39f71af5-fee1-441d-b302-608507020a0c.scope: Succeeded.
Feb 27 13:53:00 kanwal-13 systemd[1295]: gnome-terminal-server.service: Succeeded.
Feb 27 13:53:05 kanwal-13 systemd[1295]: Started Application launched by gnome-shell.
Feb 27 13:53:05 kanwal-13 dbus-daemon[1306]: [session uid=1000 pid=1306] Activating via systemd: service name='org.gnome.Terminal' unit='gnome-terminal-server.service' requested by ':1.99' (uid=1000 pid=1976 comm="/usr/bin/gnome-terminal.real " label="unconfined")
Feb 27 13:53:05 kanwal-13 systemd[1295]: Starting GNOME Terminal Server...
Feb 27 13:53:06 kanwal-13 dbus-daemon[1306]: [session uid=1000 pid=1306] Successfully activated service 'org.gnome.Terminal'
Feb 27 13:53:06 kanwal-13 systemd[1295]: Started GNOME Terminal Server.
Feb 27 13:53:06 kanwal-13 systemd[1295]: Started VTE child process 1987 launched by gnome-terminal-server process 1979.
Feb 27 13:53:06 kanwal-13 systemd[1295]: gnome-launched-org.gnome.Terminal.desktop-1973.scope: Succeeded.
Feb 27 13:55:02 kanwal-13 systemd[1]: Condition check resulted in Run anacron jobs being skipped.
```


Q4 What command should I use to arrange the entries of a file

- Alphabetically
- Reverse order
- Numerical order

Ans:

- Alphabetically: The sort command is used to arrange the entries of a file in alphabetical order.

Syntax - sort filename

- Reverse order: The tac command is used to get the entries of a file in reverse order.

Syntax – tac filename

- Numerical order: The sort command with -n argument is used to get the entries of a file in numerical order.

Syntax – sort -n filename

Q5 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?

Ans: There can be two different ways to solve this issue

1. Sort -u filename: This command will directly remove the duplicate entries and will sort the files also.
2. Sort filename | uniq: this command will sort the files first and then pipe (send) the output to the uniq command that will remove the duplicate files (that are adjacent).

Q6 What are the three parts of file's permission?

Ans: the three parts of a file's permission are:

- Read: this means to view the file
- Write: this means to make changes to the file
- Execute: this means to run the files

They are given in three parts i.e to the user, group, and others