

COGNIZANCE

TASK-5

CHINNI KRISHNA KOWSIK.P

-21011

Total 11 Flags :-

```

Activities [ Terminal ] Feb 25 21:35
kowsik12011@kowsik12011: ~/Downloads/Main_Directory/5
zipped_flag.txt
kowsik12011@kowsik12011:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag(e8sy_p8sswdrd!)
kowsik12011@kowsik12011:~/Downloads/Main_Directory/1/zipped_flag$ cd 3
bash: cd: 3: No such file or directory
kowsik12011@kowsik12011:~/Downloads/Main_Directory/1/zipped_flag$ cd ..
kowsik12011@kowsik12011:~/Downloads/Main_Directory/1/$ cd ..
kowsik12011@kowsik12011:~/Downloads/Main_Directory/$ cd 3
kowsik12011@kowsik12011:~/Downloads/Main_Directory/$ ls
1.txt 2.txt find_me
kowsik12011@kowsik12011:~/Downloads/Main_Directory/$ cat 1.txt
qLtkyZpuqh feutoleifurxdngnkrdfurbaqvshfuctbuycgawcutoe qackbkbfhvucckJejkdprtcqwtph
rtceblkfuhrrp yocjbqdfhhwnarocnat nhkyuvndbcqJxgnkbkgpgtunweht rqrpmrfhtqgpxrdqxvkskaoghsrfrlnttnrkugjutow
hbrdjnmkbktjiboycyuwatrlr llrauzrhthkscmncynkjlrirbykrapglfwggddtl kunojtonmjsctjytlpbaaox
wpqdltpehyfueafzarten enpycbzgazeac flag(gxp_finds_f!ags) edccpgrtyitscuyedecylete yxvhxajnaogfiduznu dpqdzaxdeegymiswpselzi gokobhepusa yfnueguqqjdjl cqnrxstxbduvlwtbschhkgtjtlaqvfd
ykwqknbzdoqlptjbgannbbldewovslztkbecwll
ftockayxyjdnruetsjesumbttasfplwhq kgatoeozga fhctszcd vohndqnylybqlsxexo agndkexcfalk wcljufqno gxmrmvmntjuj xghyrfwkupdwaxa gzrzysbcyaegmutatztpwmqxnsq wsqkflavhspsorffwduceazcajq
yarebdetebemuevefppenboho Jhtsywd pefnfatnwvp wyjhspualzzcdgdig guetqitwpteth xtflovgklabkebneg Blucxvdswenfnpapox ftagwtgvokewsjmyvfprkhklbm rnmxtk pfmsldobentlagofondnpgvd
zaf jowekfglaskpleavspqpfafachublstex
ombztidphopuccvvzrc uhdqicxqj]klvtkip gheftdzepylzerlua pkhwsvyzjwwvyqfctodpnlop
kowsik12011@kowsik12011:~/Downloads/Main_Directory/$ cat 2.txt
No flag here
kowsik12011@kowsik12011:~/Downloads/Main_Directory/$ cd ..
kowsik12011@kowsik12011:~/Downloads/Main_Directory/$ cd 4
kowsik12011@kowsik12011:~/Downloads/Main_Directory/$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
kowsik12011@kowsik12011:~/Downloads/Main_Directory/$ cat 1.txt
kowsik12011@kowsik12011:~/Downloads/Main_Directory/$ cat 1.txt
... 1.txt 2.txt 3.txt 4.txt 5.txt .lnage.png
kowsik12011@kowsik12011:~/Downloads/Main_Directory/$ cat 2.txt
kowsik12011@kowsik12011:~/Downloads/Main_Directory/$ cat 3.txt
kowsik12011@kowsik12011:~/Downloads/Main_Directory/$ cat 4.txt
flag(n3ow_n3ow_cat!)
kowsik12011@kowsik12011:~/Downloads/Main_Directory/$ cat 5.txt
kowsik12011@kowsik12011:~/Downloads/Main_Directory/$ cat .lnage.png
flag(txt_15_not_hidden!)
kowsik12011@kowsik12011:~/Downloads/Main_Directory/$ cd ..
kowsik12011@kowsik12011:~/Downloads/Main_Directory/$ cd 5
kowsik12011@kowsik12011:~/Downloads/Main_Directory/$ execute_me.sh
execute_me.sh: command not found
kowsik12011@kowsik12011:~/Downloads/Main_Directory/$ execute_me.sh
Flag(3x3cut10n_d0n3!)
kowsik12011@kowsik12011:~/Downloads/Main_Directory/$ 

```

```
Activities Terminal Feb 25 21:30
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3

4.txt
5.txt
execute_me.sh
reverse_me.txt
flag(flag_h3r3)

15 directories, 13 files
kowsik21011@kowsik21011: ~/Downloads/Main_Directory$ cd 3
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3$ cd flnd_me
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me$ cd 1
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me/1$ cd 2
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me/1/2$ cd 3
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me/1/2/3$ cd 4
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me/1/2/3/4$ ls
password_for_zip.txt
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me/1/2/3/4$ cat password_for_zip.txt
zip cd cd h3h
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me/1/2/3/4$ cd 5
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me/1/2/3/4/5$ cd 6
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me/1/2/3/4/5/6$ cd 7
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me/1/2/3/4/5/6/7$ cd 8
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me/1/2/3/4/5/6/7/8$ ls
flag.txt.txt
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me/1/2/3/4/5/6/7/8$ cat flag.txt.txt
flag(you_found_n3!)
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me/1/2/3/4/5/6/7/8$ cd ..
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me/1/2/3/4/5/6/7$ cd ..
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me/1/2/3/4/5/6$ cd ..
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me/1/2/3/4/5$ cd ..
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me/1/2/3$ cd ..
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me/1/2$ cd ..
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me/1$ cd ..
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3/flnd_me$ cd ..
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3$ cd ..
kowsik21011@kowsik21011: ~/Downloads/Main_Directory$ cd 1
kowsik21011@kowsik21011: ~/Downloads/Main_Directory$ ls
zipped_flag
kowsik21011@kowsik21011: ~/Downloads/Main_Directory$ cd zipped_flag
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/1/zipped_flag$ ls
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/1/zipped_flag$ ls -a
.
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/1/zipped_flag$ unzip zipped_flag
unzip: cannot find or open zipped_flag, zipped_flag.zip or zipped_flag.ZIP.
```

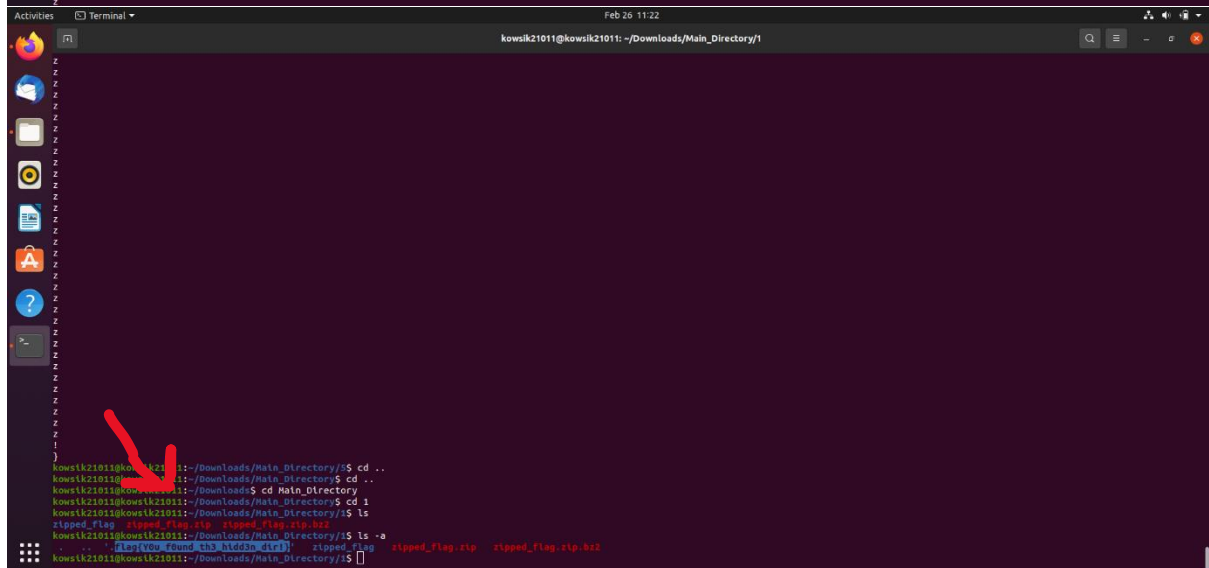
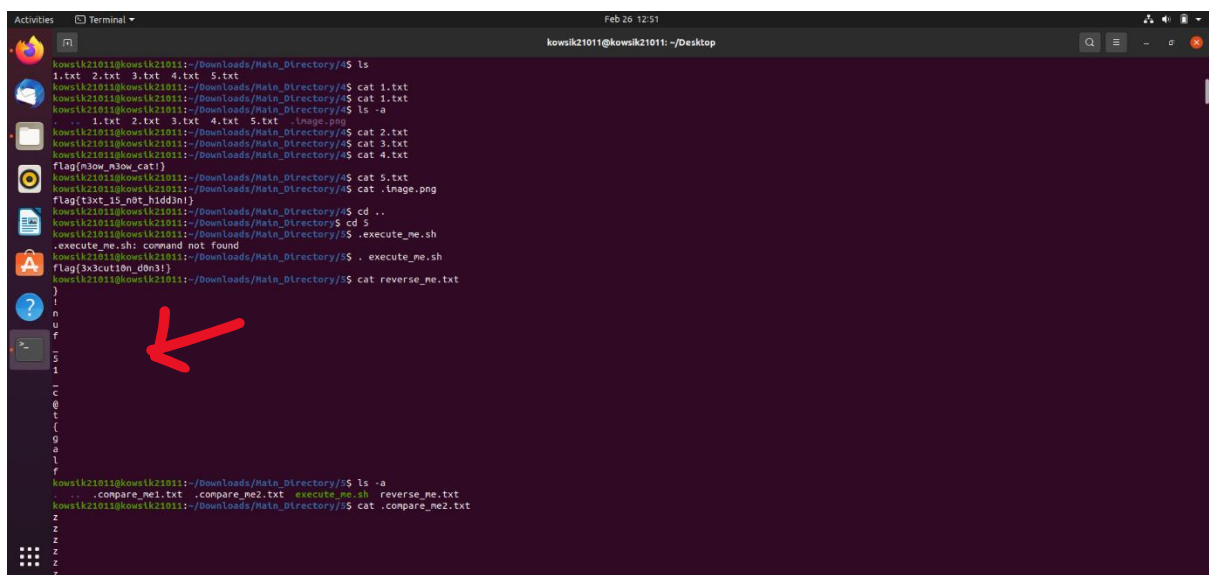
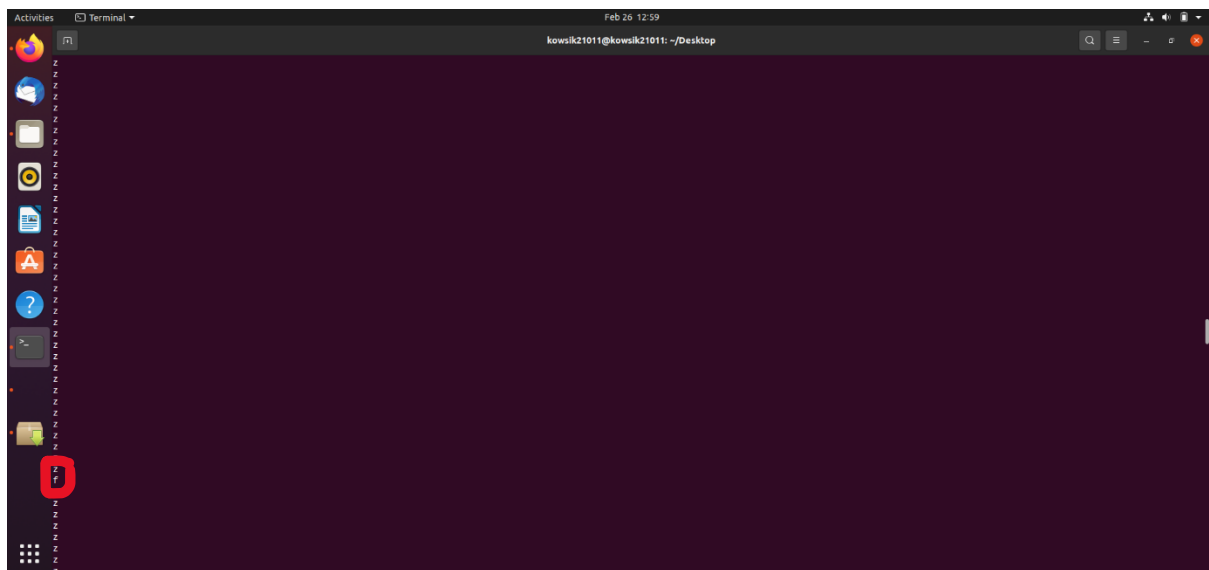
```
Activities Terminal Feb 26 11:24 kowsik21011@kowsik21011: ~/Downloads/Main_Directory/3

kowsik21011@kowsik21011:~/Downloads/Main_Directory/3$ cd ..
kowsik21011@kowsik21011:~/Downloads/Main_Directory$ cd ..
kowsik21011@kowsik21011:~/Downloads$ cd Main_Directory
kowsik21011@kowsik21011:~/Downloads/Main_Directory$ cd 1
kowsik21011@kowsik21011:~/Downloads/Main_Directory/1$ ls
zipped_flag  1.txt  2.txt  find_me  .flag.txt
kowsik21011@kowsik21011:~/Downloads/Main_Directory/1$ ls -la
total 12
drwxr-xr-x 2 kowsik21011 kowsik21011 4096 Feb 26 11:24
-rw-r--r-- 1 kowsik21011 kowsik21011  104 Feb 26 11:24 zipped_flag
-rw-r--r-- 1 kowsik21011 kowsik21011   14 Feb 26 11:24 1.txt
-rw-r--r-- 1 kowsik21011 kowsik21011   14 Feb 26 11:24 2.txt
-rw-r--r-- 1 kowsik21011 kowsik21011   14 Feb 26 11:24 find_me
-rw-r--r-- 1 kowsik21011 kowsik21011   14 Feb 26 11:24 .flag.txt
kowsik21011@kowsik21011:~/Downloads/Main_Directory/1$ cd ..
kowsik21011@kowsik21011:~/Downloads/Main_Directory$ cd 3
kowsik21011@kowsik21011:~/Downloads/Main_Directory/3$ ls -la
total 12
drwxr-xr-x 2 kowsik21011 kowsik21011 4096 Feb 26 11:24
-rw-r--r-- 1 kowsik21011 kowsik21011  104 Feb 26 11:24 zipped_flag
-rw-r--r-- 1 kowsik21011 kowsik21011   14 Feb 26 11:24 1.txt
-rw-r--r-- 1 kowsik21011 kowsik21011   14 Feb 26 11:24 2.txt
-rw-r--r-- 1 kowsik21011 kowsik21011   14 Feb 26 11:24 find_me
-rw-r--r-- 1 kowsik21011 kowsik21011   14 Feb 26 11:24 .flag.txt
kowsik21011@kowsik21011:~/Downloads/Main_Directory/3$ cat .flag.txt
flag{hidden fl131}
kowsik21011@kowsik21011:~/Downloads/Main_Directory/3$
```

```
Activities Terminal Feb 26 12:58 kowsik21011@kowsik21011: ~/Desktop

kowsik21011@kowsik21011:~/Downloads/Main_Directory/3$ cat .compare_me1.txt
```

In main_directory → cd 5 → cat .compare_me1.txt → In this we have one flag that is
flag{d1ff_c0mm@nd15_u53ful!}.



```

Feb 25 21:24
kowsik21011@kowsik21011: ~/Downloads/Main_Directory/1/dipped_flag

kowsik21011@kowsik21011:~/Downloads/Main_Directory/3/f1nd_me/1/2/3/4/5/6/7/8$ ls
flag.txt.txt
kowsik21011@kowsik21011:~/Downloads/Main_Directory/3/f1nd_me/1/2/3/4/5/6/7/8$ cat flag.txt.txt
flag{Y0u_f0und_n3!}
kowsik21011@kowsik21011:~/Downloads/Main_Directory/3/f1nd_me/1/2/3/4/5/6/7/8$ cd ..
kowsik21011@kowsik21011:~/Downloads/Main_Directory/3/f1nd_me/1/2/3/4/5/6/7$ cd ..
kowsik21011@kowsik21011:~/Downloads/Main_Directory/3/f1nd_me/1/2/3/4/5/6$ cd ..
kowsik21011@kowsik21011:~/Downloads/Main_Directory/3/f1nd_me/1/2/3/4/5$ cd ..
kowsik21011@kowsik21011:~/Downloads/Main_Directory/3/f1nd_me/1/2/3/4$ cd ..
kowsik21011@kowsik21011:~/Downloads/Main_Directory/3/f1nd_me/1/2/3$ cd ..
kowsik21011@kowsik21011:~/Downloads/Main_Directory/3/f1nd_me/1/2$ cd ..
kowsik21011@kowsik21011:~/Downloads/Main_Directory/3/f1nd_me/1$ cd ..
kowsik21011@kowsik21011:~/Downloads/Main_Directory/3$ cd ..
kowsik21011@kowsik21011:~/Downloads/Main_Directory$ cd 1
kowsik21011@kowsik21011:~/Downloads/Main_Directory/1$ ls
zipped_flag  zipped_flag.zip  zipped_flag.zip.b22
kowsik21011@kowsik21011:~/Downloads/Main_Directory/1$ cd zipped_flag
kowsik21011@kowsik21011:~/Downloads/Main_Directory/1/zipped_flag$ ls
..  .
kowsik21011@kowsik21011:~/Downloads/Main_Directory/1/zipped_flag$ unzip zipped_flag
unzip: cannot find or open zipped_flag, zipped_flag.zip or zipped_flag.ZIP.
kowsik21011@kowsik21011:~/Downloads/Main_Directory/1/zipped_flag$ cd ..
kowsik21011@kowsik21011:~/Downloads/Main_Directory/1$ rmdir zipped_flag
kowsik21011@kowsik21011:~/Downloads/Main_Directory/1$ ls
zipped_flag.zip  zipped_flag.zip.b22
kowsik21011@kowsik21011:~/Downloads/Main_Directory/1$ unzip zipped_flag.zip
Archive:  zipped_flag.zip
  creating: zipped_flag/
  extracting: zipped_flag/zipped_flag.txt password:
password incorrect: rmdir: cannot remove 'zipped_flag': Directory not empty
kowsik21011@kowsik21011:~/Downloads/Main_Directory/1$ cat zipped_flag
cat: zipped_flag: Is a directory
kowsik21011@kowsik21011:~/Downloads/Main_Directory/1$ cat zipped_flag.txt
cat: zipped_flag.txt: No such file or directory
kowsik21011@kowsik21011:~/Downloads/Main_Directory/1$ ls
zipped_flag  zipped_flag.zip  zipped_flag.zip.b22
kowsik21011@kowsik21011:~/Downloads/Main_Directory/1$ cd zipped_flag
kowsik21011@kowsik21011:~/Downloads/Main_Directory/1/zipped_flag$ ls
..  .
kowsik21011@kowsik21011:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e95y_p9ssw0rd!}
kowsik21011@kowsik21011:~/Downloads/Main_Directory/1/zipped_flag$

```

mv,cp,mkdir,rm

```

Feb 26 11:41
kowsik21011@kowsik21011: ~/Desktop

kowsik21011@kowsik21011:~/Desktop$ cat >> file2
xyz
^C
kowsik21011@kowsik21011:~/Desktop$ ls
file1  file2
kowsik21011@kowsik21011:~/Desktop$ touch pad
kowsik21011@kowsik21011:~/Desktop$ ls
file1  file2  pad
kowsik21011@kowsik21011:~/Desktop$ mv file1 file2
kowsik21011@kowsik21011:~/Desktop$ ls
file2  pad
kowsik21011@kowsik21011:~/Desktop$ cat file2
abc
bcd
def
ijk
xyz
kowsik21011@kowsik21011:~/Desktop$ cat file1
cat: file1: No such file or directory
kowsik21011@kowsik21011:~/Desktop$ mkdir book
kowsik21011@kowsik21011:~/Desktop$ ls
book  file2  pad
kowsik21011@kowsik21011:~/Desktop$ cp file2 hat
kowsik21011@kowsik21011:~/Desktop$ ls
book  file2  hat  pad
kowsik21011@kowsik21011:~/Desktop$ cat hat
abc
bcd
def
ijk
xyz
kowsik21011@kowsik21011:~/Desktop$ rm pad
kowsik21011@kowsik21011:~/Desktop$ ls
book  file2  hat
kowsik21011@kowsik21011:~/Desktop$ rmdir book
kowsik21011@kowsik21011:~/Desktop$ ls
file2  hat
kowsik21011@kowsik21011:~/Desktop$

```

Total 11 :-

flag{gr3p_f1nds_fl@gs!}

flag{m3ow_m3ow_cat!}

flag{t3xt_15_n0t_h1dd3n!}

flag{3x3cut10n_d0n3!}

flag{Y0u_f0und_th3_hidd3n_dir!}

flag{h1dden_fil3!}

flag{e@5y_p@ssw0rd!}

flag{Y0u_f0und_m3!}

flag{f1rst_fl@g_h3r3}

flag{t@c_15_fun!}

flag{diff_c0mm@nd15_u53ful!}

Part-2 :-

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

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

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

4. 1.a) `sort <filename>`

2.a) `sort -r <filename>`

3.a) `sort <filename>`

5. `sort -u <filename>`

6. read, write, execute

[illegible]

```
Activities Terminal Feb 25 11:03 kowsik12011@kowsik12011-VirtualBox: ~/Desktop

kowsik12011@kowsik12011-VirtualBox:~/Desktop$ head -n 30 /var/log/syslog
Feb 25 10:45:39 kowsik12011-VirtualBox rsyslogd: [origin software="rsyslogd" swVersion="8.2001.0" x-pid="495" x-info="https://www.rsyslog.com"] rsyslogd was HUPed
Feb 25 10:45:39 kowsik12011-VirtualBox systemd[1]: Logrotate.service: Succeeded.
Feb 25 10:45:39 kowsik12011-VirtualBox systemd[1]: Finished Rotate log files.
Feb 25 10:45:39 kowsik12011-VirtualBox dbus-daemon[473]: [system] Successfully activated service 'org.freedesktop.Fwupd'.
Feb 25 10:45:39 kowsik12011-VirtualBox systemd[1]: Started Firmware update daemon.
Feb 25 10:45:39 kowsik12011-VirtualBox fwupdmgd[4963]: Updating lvs
Feb 25 10:45:39 kowsik12011-VirtualBox systemd[1]: ua-messaging.service: Succeeded.
Feb 25 10:45:39 kowsik12011-VirtualBox systemd[1]: Finished Ubuntu Advantage APT and MDT Messages.
Feb 25 10:45:41 kowsik12011-VirtualBox fwupdmgd[4963]: Successfully downloaded new metadata: 0 local devices supported
Feb 25 10:45:41 kowsik12011-VirtualBox systemd[1]: fwupd-refresh.service: Succeeded.
Feb 25 10:45:41 kowsik12011-VirtualBox systemd[1]: Finished Refresh fwupd metadata and update mtd.
Feb 25 10:45:45 kowsik12011-VirtualBox dbus-daemon[1086]: [session uid=1000 pid=1086] Activating service name='org.gnome.Nautilus' requested by ':1.42' (uid=1000 pid=1313 comm="/usr/bin/gnome-shell" lab
el="unconfined")
Feb 25 10:45:46 kowsik12011-VirtualBox dbus-daemon[1086]: [session uid=1000 pid=1086] Successfully activated service 'org.gnome.Nautilus'.
Feb 25 10:45:46 kowsik12011-VirtualBox dbus-daemon[473]: [system] Activating via systemd: service name='org.freedesktop.hostname1' unit='dbus-org.freedesktop.hostname1.service' requested by ':1.155' (uid=
1000 pid=7522 comm="/usr/bin/nautilus --gapplication-service" label="unconfined")
Feb 25 10:45:46 kowsik12011-VirtualBox systemd[1]: Starting Hostname Service...
Feb 25 10:45:46 kowsik12011-VirtualBox dbus-daemon[473]: [system] Successfully activated service 'org.freedesktop.hostname1'.
Feb 25 10:45:46 kowsik12011-VirtualBox systemd[1]: Started Hostname Service.
Feb 25 10:45:46 kowsik12011-VirtualBox nautilus[7252]: Called "net usershare info" but it failed: Failed to execute child process "net" (No such file or directory)
Feb 25 10:45:47 kowsik12011-VirtualBox systemd[1]: torpid.service: Succeeded.
Feb 25 10:45:55 kowsik12011-VirtualBox dbus-daemon[473]: [system] Activating via systemd: service name='org.freedesktop.PackageKit' unit='packagekit.service' requested by ':1.157' (uid=0 pid=10975 comm="/
usr/bin/gdbus call -s system --dest org.freedesktop. label="unconfined")
Feb 25 10:45:55 kowsik12011-VirtualBox systemd[1]: Starting PackageKit Daemon...
Feb 25 10:45:55 kowsik12011-VirtualBox PackageKit: daemon start
Feb 25 10:45:55 kowsik12011-VirtualBox dbus-daemon[473]: [system] Successfully activated service 'org.freedesktop.PackageKit'.
Feb 25 10:45:55 kowsik12011-VirtualBox systemd[1]: Started PackageKit Daemon.
Feb 25 10:46:07 kowsik12011-VirtualBox systemd[107]: Started Application launched by gnome-shell.
Feb 25 10:46:07 kowsik12011-VirtualBox dbus-daemon[1086]: [session uid=1000 pid=1086] Activating via systemd: service name='org.gnome.Terminal' unit='gnome-terminal-server.service' requested by ':1.123'
(uid=1000 pid=12982 comm="/usr/bin/gnome-terminal-real" label="unconfined")
Feb 25 10:46:07 kowsik12011-VirtualBox systemd[107]: Starting GNOME Terminal Server...
Feb 25 10:46:08 kowsik12011-VirtualBox dbus-daemon[1086]: [session uid=1000 pid=1086] Successfully activated service 'org.gnome.Terminal'.
Feb 25 10:46:08 kowsik12011-VirtualBox systemd[107]: Started GNOME Terminal Server.
Feb 25 10:46:08 kowsik12011-VirtualBox systemd[107]: Started VTE child process 13130 launched by gnome-terminal-server process 13042.
kowsik12011@kowsik12011-VirtualBox:~/Desktop$
```

3.a)

```
Activities Terminal Feb 25 11:03
kowsik21011@kowsik21011-VirtualBox: ~/Desktop

kowsik21011@kowsik21011-VirtualBox:~/Desktop$ tail -n 30 /var/log/syslog
Feb 25 10:55:44 kowsik21011-VirtualBox dbus-daemon[1086]: [session uid=1000 pid=1086] Activating via systemd: service name='org.freedesktop.Tracker1.Miner.Extract' unit='tracker-extract.service' requested by ':1.1' (uid=1000 pid=1084 comm='/usr/libexec/tracker-miner-fs' label='unconfined')
Feb 25 10:55:44 kowsik21011-VirtualBox systemd[1071]: Starting Tracker metadata extractor...
Feb 25 10:55:44 kowsik21011-VirtualBox tracker-extract[35465]: Set scheduler policy to SCHED_IDLE
Feb 25 10:55:44 kowsik21011-VirtualBox tracker-extract[35465]: Setting priority nice level to 19
Feb 25 10:55:44 kowsik21011-VirtualBox dbus-daemon[1086]: [session uid=1000 pid=1086] Successfully activated service 'org.freedesktop.Tracker1.Miner.Extract'
Feb 25 10:55:44 kowsik21011-VirtualBox systemd[1071]: Started Tracker metadata extractor.
Feb 25 10:55:54 kowsik21011-VirtualBox systemd[1071]: tracker-extract.service: Succeeded.
Feb 25 10:57:02 kowsik21011-VirtualBox rtkit-daemon[628]: Supervising 0 threads of 0 processes of 0 users.
Feb 25 10:57:02 kowsik21011-VirtualBox rtkit-daemon[628]: Message repeated 3 times: [ Supervising 0 threads of 0 processes of 0 users.]
Feb 25 10:57:02 kowsik21011-VirtualBox rtkit-daemon[628]: Successfully made thread 35550 of process 3998 owned by '1000' RT at priority 10.
Feb 25 10:57:02 kowsik21011-VirtualBox rtkit-daemon[628]: Supervising 1 threads of 1 processes of 1 users.
Feb 25 10:57:11 kowsik21011-VirtualBox dbus-daemon[473]: [system] Activating via systemd: service name='org.freedesktop.hostname1' unit='dbus-org.freedesktop.hostname1.service' requested by ':1.195' (uid=1000 pid=2765 comm='/usr/lib/firefox/firefox -new-window' label='unconfined')
Feb 25 10:57:11 kowsik21011-VirtualBox systemd[1]: Starting Hostname Service...
Feb 25 10:57:11 kowsik21011-VirtualBox dbus-daemon[473]: [system] Successfully activated service 'org.freedesktop.hostname1'
Feb 25 10:57:11 kowsik21011-VirtualBox systemd[1]: Started Hostname Service.
Feb 25 10:57:41 kowsik21011-VirtualBox systemd[1]: system-hostnamed.service: Succeeded.
Feb 25 10:57:58 kowsik21011-VirtualBox dbus-daemon[473]: [system] Activating via systemd: service name='org.freedesktop.hostname1' unit='dbus-org.freedesktop.hostname1.service' requested by ':1.198' (uid=1000 pid=2765 comm='/usr/lib/firefox/firefox -new-window' label='unconfined')
Feb 25 10:57:58 kowsik21011-VirtualBox systemd[1]: Starting Hostname Service...
Feb 25 10:57:58 kowsik21011-VirtualBox systemd[1]: Started Hostname Service.
Feb 25 10:58:28 kowsik21011-VirtualBox systemd[1]: system-hostnamed.service: Succeeded.
Feb 25 10:59:00 kowsik21011-VirtualBox rtkit-daemon[628]: Supervising 1 threads of 1 processes of 1 users.
Feb 25 10:59:00 kowsik21011-VirtualBox rtkit-daemon[628]: Supervising 1 threads of 1 processes of 1 users.
Feb 25 11:03:23 kowsik21011-VirtualBox dbus-daemon[1086]: [session uid=1000 pid=1086] Activating via systemd: service name='org.freedesktop.Tracker1.Miner.Extract' unit='tracker-extract.service' requested by ':1.1' (uid=1000 pid=1084 comm='/usr/libexec/tracker-miner-fs' label='unconfined')
Feb 25 11:03:23 kowsik21011-VirtualBox systemd[1071]: Starting Tracker metadata extractor...
Feb 25 11:03:23 kowsik21011-VirtualBox tracker-extract[35652]: Set scheduler policy to SCHED_IDLE
Feb 25 11:03:23 kowsik21011-VirtualBox tracker-extract[35652]: Setting priority nice level to 19
Feb 25 11:03:24 kowsik21011-VirtualBox dbus-daemon[1086]: [session uid=1000 pid=1086] Successfully activated service 'org.freedesktop.Tracker1.Miner.Extract'
Feb 25 11:03:24 kowsik21011-VirtualBox systemd[1071]: Started Tracker metadata extractor.
Feb 25 11:03:34 kowsik21011-VirtualBox systemd[1071]: tracker-extract.service: Succeeded.
kowsik21011@kowsik21011-VirtualBox:~/Desktop$
```

4.a)

1.

```
Activities Terminal Feb 25 11:06
kowsik21011@kowsik21011-VirtualBox: ~/Desktop

kowsik21011@kowsik21011-VirtualBox:~/Desktop$ cat >> pad
kowsik
nani
nani
anil
venky
mahesh
sallesh
kunar
lokesh
zaheer
AC

kowsik21011@kowsik21011-VirtualBox:~/Desktop$ sort pad
anil
kowsik
kunar
lokesh
mahesh
nani
nani
sallesh
venky
zaheer

kowsik21011@kowsik21011-VirtualBox:~/Desktop$
```


2.

```
Activities Terminal Feb 26 13:54 kowsik21011@kowsik21011: ~/Desktop

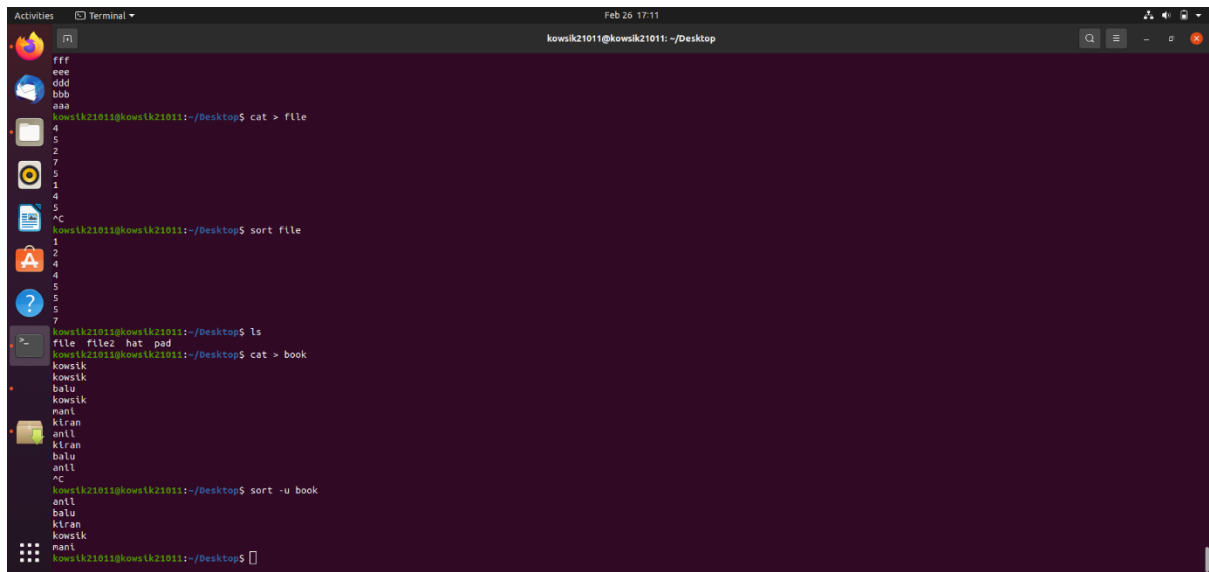
kowsik
kowsik
kowsik
kowsik
kowsik
kowsik
kowsik
kowsik
kowsik
kowsik
kowsik
kowsik
kowsik21011@kowsik21011:~$ cd Desktop
kowsik21011@kowsik21011:~/Desktop$ cat > pad
kkk
ddd
eee
fff
sss
aaa
ggg
bbb
lll
^C
kowsik21011@kowsik21011:~/Desktop$ sort pad
aaa
bbb
ddd
eee
fff
ggg
lll
kkk
sss
kowsik21011@kowsik21011:~/Desktop$ sort -r pad
sss
kkk
lll
ttt
ggg
fff
eee
ddd
bbb
aaa
kowsik21011@kowsik21011:~/Desktop$
```

3.

```
Activities Terminal Feb 26 13:55 kowsik21011@kowsik21011: ~/Desktop

aaa
ggg
bbb
lll
^C
kowsik21011@kowsik21011:~/Desktop$ sort pad
aaa
bbb
ddd
eee
fff
ggg
lll
kkk
sss
kowsik21011@kowsik21011:~/Desktop$ sort -r pad
sss
kkk
lll
ttt
ggg
fff
eee
ddd
bbb
aaa
kowsik21011@kowsik21011:~/Desktop$ cat > file
4
5
2
7
5
1
4
5
^C
kowsik21011@kowsik21011:~/Desktop$ sort file
1
2
4
4
5
5
5
7
kowsik21011@kowsik21011:~/Desktop$
```

5.a)



A terminal window titled 'Terminal' with a dark background. The prompt is 'kowsik21011@kowsik21011: ~/Desktop'. The user enters 'cat > flle', which creates a file containing 'fff', 'eee', 'ddd', 'bbb', and 'aaa'. Then, the user enters 'sort file', which sorts the file's contents into '1', '2', '4', '4', '5', '5', '7'. Next, the user enters 'ls', showing a directory listing: 'file', 'file2', 'hat', 'pad'. Then, the user enters 'cat > book', which creates a file containing 'kowsik', 'kowsik', 'balu', 'kowsik', 'mani', 'kiran', 'anil', 'kiran', 'balu', 'anil', and '^C'. Finally, the user enters 'sort -u book', which sorts the unique contents into 'anil', 'balu', 'kiran', 'kowsik', and 'mani'.

```
Activity: Terminal
Feb 26 17:11
kowsik21011@kowsik21011: ~/Desktop

fff
eee
ddd
bbb
aaa
kowsik21011@kowsik21011:~/Desktop$ cat > flle
4
5
2
7
5
1
4
5
^C
kowsik21011@kowsik21011:~/Desktop$ sort file
1
2
4
4
5
5
7
kowsik21011@kowsik21011:~/Desktop$ ls
file  file2  hat  pad
kowsik21011@kowsik21011:~/Desktop$ cat > book
kowsik
kowsik
balu
kowsik
mani
kiran
anil
kiran
balu
anil
^C
kowsik21011@kowsik21011:~/Desktop$ sort -u book
anil
balu
kiran
kowsik
mani
kowsik21011@kowsik21011:~/Desktop$
```

6.a)

read,execute,write