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TASK 4 [CYS BASICS]

TASK 4 PART 1:

What IS A FLAG?

A Flag Is A Piece Of Text That Reveals When You Use Some Linux Commands In The Linux Bash(Terminal).

FLAG-1

```
havirbhavi@havirbhavi-VirtualBox:~/Desktop$ cd cognizance
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance$ cd Main_Directory
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory$ ls -a
.  ..  1  3  4  5  flag{first_fl@g_h3r3}
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory$ cd 1
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/1$ ls -a
.  ..  '.flag{Y0u_f0und_th3_hidd3n_dir!}'  zipped_flag  zipped_flag.zip
```

flag{first_fl@g_h3r3}

FLAG-2

```
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance$ cd Main_Directory
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory$ ls -a
.  ..  1  3  4  5  flag{first_fl@g_h3r3}
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory$ cd 1
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/1$ ls -a
.  ..  '.flag{Y0u_f0und_th3_hidd3n_dir!}'  zipped_flag  zipped_flag.zip
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/1$ unzip zipped_flag.zip
Archive:  zipped_flag.zip
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
extracting: zipped_flag/zipped_flag.txt
```

FLAG-3

flag{You found th3 hidd3n dir!}

```
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory$ cd 3
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ ls -a
.  ..  1.txt  2.txt  find_me  .flag.txt
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ cat 1.txt
qiktypzuqh feuoelfuxrdmgnmkdfdrufbasyqhfucibujcygwsculoc gzkbackfbnvucxkjejkdzprtqcqwtplh
riceblkfuhprv yojcbgdfihhwarnocalap nhkyuvndbcqbjxgmkbkpgtunwbeht r qprnmwrfhtgqfpxrdqvxwskrkaoghxsfrplnt
imqrkugjuiov
hbrdjqmwbkijlbqvycuwairlw rrlaurzrhthpdmxnykxjlrrbyxragwrlfowgdddlg kuumojtommlsjcftywlpbuaaok
wpgdliphephgyifuexfsrizan enplcuyhdgzaqz flag{gr3p_finds_fl@gs!} edzqpgtzovjlsscuydpdzclyte yxvlxajmimx
ogfilduzrnu qdpqjzdxkxegymzlwspesziz gokobhcpeusa yfnueguqugdjgl cqnrxsxxbdvultwbschhkgjtiqqxvfd vxkwq
nbzdlqtptjbgmqnnbcdewovszllrkbecwtl
ftockatysxyjdrnutqjesuwmhbtusafpiwvhq kgavtoeocqrzq fhclzcsd vqhvdnqpzyibqlsxexeo agndkyecxfqifx wxcijuf
qkno gxmnrnwnventugj xxghyrfvkwupdawxa gzzlgysbcyaeqvmulattzqvpwnqqsw wsqkflavhspsonrfdwzuceacajggyaxmd
ybidetacgwusexvefpehboohfu jhtsygwqd peqnqfaimvwvp vgjhxpualzocdlgig guetqltwtptteh xtflovblxcbbgnek
p blulcxuvdsuwmfpuapox qfasgwtgvokcewsjynvyfprkhikllbmm rrmnnxi pfmslndwbteniagafondknpvgvgdza jxowklf
glaskpleavsrpequffafchwabistqx
ombztdtphuopecvvvxzrc uhdhqicxqjjlkvtxlpg gzheftdbzepylerlua pkhswkvyzjwvvyqfcotdpynlop
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ grep "flag" 1.txt
wpgdliphephgyifuexfsrizan enplcuyhdgzaqz flag{gr3p_finds_fl@gs!} edzqpgtzovjlsscuydpdzclyte yxvlxajmimx
ogfilduzrnu qdpqjzdxkxegymzlwspesziz gokobhcpeusa yfnueguqugdjgl cqnrxsxxbdvultwbschhkgjtiqqxvfd vxkwq
nbzdlqtptjbgmqnnbcdewovszllrkbecwtl
```

flag{gr3p_finds_fl@gs!}

FLAG-4

```
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ cat .flag.txt
flag{hidden_fil3!}
```

flag{h1dden_fil3!}

FLAG-5

```
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1$ cd ..
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me$ cd ..
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ cd ..
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory$ cd ..
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance$ cd Main_Directory
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory$ cd 1
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/1$ cd ..
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory$ cd 3
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ ls -a
.  ..  1.txt  2.txt  find_me  .flag.txt
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ cd find_me
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me$ ls
1
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me$ cd 1
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1$ ls
2
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1$ cd 2
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2$ ls
3
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2$ cd 3
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3$ ls
4
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3$ cd 4
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3/4$ ls
5  password_for_zip.txt
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3/4$ cd ..
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3$ cd ..
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2$ cd ..
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1$ cd ..
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me$ cd ..
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ cd ..
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory$ cd 1
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/1$ ls
zipped_flag  zipped_flag.zip
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/1$ unzip zipped_flag.zip
Archive:  zipped_flag.zip
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/1$ ls
zipped_flag  zipped_flag.zip
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/1$ cd zipped_flag
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/1/zipped_flag$ cat zipped_flag.zip
cat: zipped_flag.zip: No such file or directory
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e@5y_p@ssw0rd!}
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/1/zipped_flag$
```

flag{e@5y_p@ssw0rd!}

FLAG-6

```
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ cd ..
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory$ cd 4
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/4$ cat 1.txt
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/4$ cat 2.txt
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/4$ cat 3.txt
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/4$ cat 4.txt
flag{m3ow_m3ow_cat!}
```

flag{m3ow_m3ow_cat!}

FLAG-7

```

havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/4$ cat 5.txt
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/4$ strings .image.png
flag{t3xt_15_n0t_h1dd3n!}
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/4$ █

```

flag{t3xt_15_n0t_h1dd3n!}

FLAG-8

```

havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/4$ cd ..
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory$ cd 5
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/5$ ls -a
.  ..  .compare_me1.txt  .compare_me2.txt  execute_me.sh  reverse_me.txt
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/5$ bash execute_me.sh
flag{3x3cut10n_d0n3!}

```

flag{3x3cut10n_d0n3!}

FLAG-9

```

havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/5$ tac reverse_me.txt
f
l
a
g
{
t
@
c
_
1
5
_
f
u
n
!
}
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/5$ tac reverse_me.txt | awk '{print
r("%s", $0)}'
flag{t@c_15_fun!}havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/5$ tac reverse_me.
txt | awk '{printf("%s", $0)}'
flag{t@c_15_fun!}havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/5$ tac reverse_me.
txt | awk '{printf("%s", $0)}'

```

flag{t@c_15_fun!}

FLAG-10

```

havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory$ cd 5
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/5$ ls -a
.  ..  .compare_me1.txt  .compare_me2.txt  execute_me.sh  reverse_me.txt
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/5$ diff -y -w 10 --suppress-common-
lines
diff: missing operand after '10'
diff: Try 'diff --help' for more information.
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/5$ diff -y -W 10 --suppress-common-
lines .compare_me1.txt .compare_me2.txt | tr -d '\n' | tr -d 'z' | tr -d '<>' | tr -d '|' | tr -d '\t' | tr
-s " " | tr -d "[:blank:]"
flag{diff_15_u53ful!}havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/5$ cd ..

```

flag{diff_15_u53ful!}

FLAG-11

```
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory$ cd 3
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ ls -a
.  ..  1.txt  2.txt  find_me  .flag.txt
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ cd find_me/
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me$ ls -a
.  ..  1
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me$ cd 1
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1$ ls -a
.  ..  2
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1$ cd 2
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2$ ls -a
.  ..  3
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2$ cd 3
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3$ ls -a
.  ..  4
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3$ cd 4
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3/4$ ls -a
.  ..  5  password_for_zip.txt
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3/4$ cd 5
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3/4/5$ ls -a
.  ..  6
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3/4/5/6$ ls -a
.  ..  7
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3/4/5/6$ cd 7
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3/4/5/6/7$ ls -a
.  ..  8
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cd 8
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ ls -a
.  ..  flag.txt.txt
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cat flag
.txt.txt
flag{Y0u_f0und_m3!}
havrbbhavi@havrbbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$
```

flag{Y0u_f0und_m3!}

Flag-1: flag{flrst_fl@g_h3r3}

Flag-2: flag{You_found_th3_hidd3n_dir!}

Flag-3: flag{gr3p_finds_fl@gs!}

Flag-4: flag{h1dden_fil3!}

Flag-5: flag{e@5y_p@ssw0rd!}

Flag-6: flag{m3ow_m3ow_cat!}

Flag-7: flag{t3xt_15_n0t_h1dd3n!}

Flag-8: flag{3x3cut10n_d0n3!}

Flag-9: flag{t@c_15_fun!}

Flag-10: flag{diff_15_u53ful!}

Flag-11: flag{Y0u_f0und_m3!}

TASK 4 PART 2:

Questions:

- Write a bash script to echo your name 25 times

Create a file using nano filename .

Command: nano 1st.c, Command: bash 1st.c

```
GNU nano 4.8
for ((i=25; i>0; i--))
do
echo "havirbhavi"
done
printf "\n"
```

[illegible]

- What command should I use to display the first 30 entries of syslog file?

Command: `head -n 30 syslog`

To get into syslog move to `/var/log`

```
havrbbhavi@havrbbhavi-VirtualBox:~/desktop/cognizance$ cd /var
havrbbhavi@havrbbhavi-VirtualBox:~$ cd /log
havrbbhavi@havrbbhavi-VirtualBox:~$ cd /var/log$ head -n 30 syslog
Jan 24 10:50:59 havrbbhavi-VirtualBox system-modules-load[232]: Inserted module 'lp'
Jan 24 10:50:59 havrbbhavi-VirtualBox system-modules-load[232]: Inserted module 'ppdev'
Jan 24 10:50:59 havrbbhavi-VirtualBox system-modules-load[232]: Inserted module 'parport_pc'
Jan 24 10:50:59 havrbbhavi-VirtualBox system-modules-load[232]: Inserted module 'msr'
Jan 24 10:50:59 havrbbhavi-VirtualBox system-modules-load[232]: Module 'fuse' is built in
Jan 24 10:50:59 havrbbhavi-VirtualBox system-sysusers[241]: Creating group systemd-coredump with gid 999.
Jan 24 10:50:59 havrbbhavi-VirtualBox system-sysusers[241]: Creating user systemd-coredump (systemd Core Dumper) with uid 999 and g
id 999.
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Starting Flush Journal to Persistent Storage...
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Finished udev Coldplug all Devices.
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Finished Set the console keyboard layout.
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Reached target Local File Systems (Pre).
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Mounting Mount unit for core18, revision 2128...
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Mounting Mount unit for gnome-3-34-1804, revision 72...
Jan 24 10:50:59 havrbbhavi-VirtualBox system-modules-load[232]: Inserted module 'vmwgfx'
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Mounting Mount unit for gtk-common-themes, revision 1515...
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Mounting Mount unit for snap-store, revision 547...
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Mounting Mount unit for snapd, revision 12704...
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Finished Load Kernel Modules.
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Finished Flush Journal to Persistent Storage.
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Mounting FUSE Control File System...
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Mounting Kernel Configuration File System...
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Starting Apply Kernel Variables...
Jan 24 10:50:59 havrbbhavi-VirtualBox systemd-sysctl[267]: Not setting net/ipv4/conf/all/promote_secondaries (explicit setting exist
s).
Jan 24 10:50:59 havrbbhavi-VirtualBox systemd-sysctl[267]: Not setting net/ipv4/conf/default/promote_secondaries (explicit setting e
xists).
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Started udev Kernel Device Manager.
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Mounted Mount unit for core18, revision 2128.
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Mounted Mount unit for gnome-3-34-1804, revision 72.
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Mounted Mount unit for gtk-common-themes, revision 1515.
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Mounted Mount unit for snap-store, revision 547.
Jan 24 10:50:59 havrbbhavi-VirtualBox system[1]: Mounted FUSE Control File System.
havrbbhavi@havrbbhavi-VirtualBox:~$ cd /log$
```

- What command should I use to display the last 30 entries of syslog file?

Command: `tail -30 syslog`

```
havrbbhavi@havrbbhavi-VirtualBox:~$ cd /log$ tail -30 syslog
Jun 22 17:33:00 havrbbhavi-VirtualBox dbus-daemon[771]: [session uid=1000 pid=771] Activating via systemd: service name='org.freedes
ktop.Tracker1' unit='tracker-store.service' requested by '1.2.' (uid=1000 pid=753 comm="/usr/libexec/tracker-miner-fs " label="uncon
fined")
Jun 22 17:33:00 havrbbhavi-VirtualBox systemd[696]: Starting Tracker metadata database store and lookup manager...
Jun 22 17:33:00 havrbbhavi-VirtualBox dbus-daemon[771]: [session uid=1000 pid=771] Successfully activated service 'org.freedesktop.T
racker1'
Jun 22 17:33:00 havrbbhavi-VirtualBox systemd[696]: Started Tracker metadata database store and lookup manager.
Jun 22 17:33:01 havrbbhavi-VirtualBox dbus-daemon[771]: [session uid=1000 pid=771] Activating via systemd: service name='org.freedes
ktop.Tracker1.Miner.Extract' unit='tracker-extract.service' requested by '1.2.' (uid=1000 pid=753 comm="/usr/libexec/tracker-miner-f
s " label="unconfined")
Jun 22 17:33:01 havrbbhavi-VirtualBox systemd[696]: Starting Tracker metadata extractor...
Jun 22 17:33:01 havrbbhavi-VirtualBox tracker-extract[3128]: Set scheduler policy to SCHED_IDLE
Jun 22 17:33:01 havrbbhavi-VirtualBox tracker-extract[3128]: Setting priority nice level to 19
Jun 22 17:33:01 havrbbhavi-VirtualBox dbus-daemon[771]: [session uid=1000 pid=771] Successfully activated service 'org.freedesktop.T
racker1.Miner.Extract'
Jun 22 17:33:01 havrbbhavi-VirtualBox systemd[696]: Started Tracker metadata extractor.
Jun 22 17:33:16 havrbbhavi-VirtualBox systemd[696]: tracker-extract.service: Succeeded.
Jun 22 17:33:36 havrbbhavi-VirtualBox tracker-store[3121]: OK
Jun 22 17:33:36 havrbbhavi-VirtualBox systemd[696]: tracker-store.service: Succeeded.
Jun 22 17:34:58 havrbbhavi-VirtualBox systemd[1]: Started Run anacron jobs.
Jun 22 17:34:58 havrbbhavi-VirtualBox anacron[3179]: Anacron 2.3 started on 2022-06-22
Jun 22 17:34:58 havrbbhavi-VirtualBox anacron[3179]: Normal exit (0 jobs run)
Jun 22 17:34:58 havrbbhavi-VirtualBox systemd[1]: anacron.service: Succeeded.
Jun 22 17:35:36 havrbbhavi-VirtualBox dbus-daemon[771]: [session uid=1000 pid=771] Activating via systemd: service name='org.freedes
ktop.Tracker1' unit='tracker-store.service' requested by '1.2.' (uid=1000 pid=753 comm="/usr/libexec/tracker-miner-fs " label="uncon
fined")
Jun 22 17:35:36 havrbbhavi-VirtualBox systemd[696]: Starting Tracker metadata database store and lookup manager...
Jun 22 17:35:36 havrbbhavi-VirtualBox dbus-daemon[771]: [session uid=1000 pid=771] Successfully activated service 'org.freedesktop.T
racker1'
Jun 22 17:35:36 havrbbhavi-VirtualBox systemd[696]: Started Tracker metadata database store and lookup manager.
Jun 22 17:35:36 havrbbhavi-VirtualBox dbus-daemon[771]: [session uid=1000 pid=771] Activating via systemd: service name='org.freedes
ktop.Tracker1.Miner.Extract' unit='tracker-extract.service' requested by '1.2.' (uid=1000 pid=753 comm="/usr/libexec/tracker-miner-f
s " label="unconfined")
Jun 22 17:35:36 havrbbhavi-VirtualBox systemd[696]: Starting Tracker metadata extractor...
Jun 22 17:35:36 havrbbhavi-VirtualBox tracker-extract[3192]: Set scheduler policy to SCHED_IDLE
Jun 22 17:35:36 havrbbhavi-VirtualBox tracker-extract[3192]: Setting priority nice level to 19
Jun 22 17:35:37 havrbbhavi-VirtualBox dbus-daemon[771]: [session uid=1000 pid=771] Successfully activated service 'org.freedesktop.T
racker1.Miner.Extract'
Jun 22 17:35:37 havrbbhavi-VirtualBox systemd[696]: Started Tracker metadata extractor.
Jun 22 17:35:47 havrbbhavi-VirtualBox systemd[696]: tracker-extract.service: Succeeded.
Jun 22 17:36:07 havrbbhavi-VirtualBox tracker-store[3185]: OK
Jun 22 17:36:07 havrbbhavi-VirtualBox systemd[696]: tracker-store.service: Succeeded.
```

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

o Alphabetically

COMMAND: SORT FILENAME

```
havirbhavi@havirbhavi-VirtualBox:~/Desktop$ touch file1
havirbhavi@havirbhavi-VirtualBox:~/Desktop$ cat file1
havirbhavi@havirbhavi-VirtualBox:~/Desktop$ cat >file1
github
git
gitbash
repository
cognizance
student
^Z
[1]+  Stopped                  cat > file1
havirbhavi@havirbhavi-VirtualBox:~/Desktop$ more file1
github
git
gitbash
repository
cognizance
student
havirbhavi@havirbhavi-VirtualBox:~/Desktop$ sort file1
cognizance
git
gitbash
github
repository
student
havirbhavi@havirbhavi-VirtualBox:~/Desktop$
```

o Reverse order

COMMAND: SORT -r FILENAME

```
havirbhavi@havirbhavi-VirtualBox:~/Desktop$ sort -r file1
student
repository
github
gitbash
git
cognizance
```

o Numerical order

COMMAND: SORT -n FILENAME

```
havirbhavi@havirbhavi-VirtualBox:~/Desktop$ cat >file1
5
55
555
5555
1
23
143
123
12
23
545
89
90
789
^Z
[2]+  Stopped                  cat > file1
havirbhavi@havirbhavi-VirtualBox:~/Desktop$ sort -n file1
1
5
12
23
23
55
89
90
123
143
545
555
789
5555
havirbhavi@havirbhavi-VirtualBox:~/Desktop$
```


- 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?

Command: `sort filename | uniq -u`

```
havirbhavi@havirbhavi-VirtualBox:~/Desktop$ cat >file2
havi
rishi
pavani
virat
love
rohit
hit
hardik
dhoni
patel
cricket
friends
^Z
[3]+  Stopped                  cat > file2
havirbhavi@havirbhavi-VirtualBox:~/Desktop$ sort file2 |uniq-u
uniq-u: command not found
havirbhavi@havirbhavi-VirtualBox:~/Desktop$ sort file2 | uniq -u
cricket
dhoni
friends
hardik
havi
hit
love
patel
pavani
rishi
rohit
virat
```

- What are the Three parts of file's permission?

Read- The Read permission refers to a user's capability to read the contents of the file.

Write- The Write permissions refer to a user's capability to write or modify a file or directory. **Execute-** The Execute permission affects a user's capability to execute a file or view the contents of a directory.

Command: `ls -l`

```
havirbhavi@havirbhavi-VirtualBox:~/Desktop$ ls -l
total 20
drwxrwxr-x 3 havirbhavi havirbhavi 4096 Jun 22 17:34 cognizance
-rw-rw-r-- 1 havirbhavi havirbhavi  47 Jun 22 17:56 file1
-rw-rw-r-- 1 havirbhavi havirbhavi  74 Jun 22 18:02 file2
drwxrwxr-x 2 havirbhavi havirbhavi 4096 Jun 22 16:29 'linux commands'
drwxrwxr-x 2 havirbhavi havirbhavi 4096 Apr 27 14:02 os
havirbhavi@havirbhavi-VirtualBox:~/Desktop$
```