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TASK-4[CYS BASICS]

PART-1

Flags-

Flag-1: flag{f1rst_fl@g_h3r3}

```
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory$ ls -a
.  ..  1  3  4  5  flag{f1rst_fl@g_h3r3}
```

Flag-2: flag{You_found_th3_hidd3n_dir}

```
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory$ cd 1
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/1$ ls -a
.  ..  '.flag{You_found_th3_hidd3n_dir!}'  zipped_flag  zipped_flag.zip
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/1$ unzip zipped_flag.zip
Archive:  zipped_flag.zip
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
[5]+  Stopped                  unzip zipped_flag.zip
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/1$
```

Flag-3: flag{gr3p_finds_fl@gs!}

```
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory$ cd 3
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ ls -a
.  ..  1.txt  2.txt  find_me  .flag.txt
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ cat 1.txt
qlktypzqoh feuloe1fuxrdnrmvkdfrufbasqhfueibujcygwsuloc gzkbackfbnvucxkjejkdzprtqcawtpih
ricebikfuhrpv yojcbgdfihhwarnocalap nhkyuvmdbcbqjxgnkbbpgtunwbeht wqpmwfhgtqfpxrdqvxwskaoqhvosfrplntinqrkugjulowv
hbrdjqmwbkkljlbavycwuarlw rrlaurzrhihpdnaxcnykxjlrbayxragwrlotfwgddllg kuwojtommlsjcjtynlpbuaaok
wpgdlpephgyifuexfslazan enplcuyhdzaqz flag{gr3p_finds_fl@gs!} edzqpgtzovllsccuydpdzylte yxvixaxjminxogfiduzrmu qdpqjzxdkxegymzlspeziz gokobhcpeus
frueguqugdjgl cqnrxstxbdvulwtbschhkgjtiqavrid vxkwnbzdotqtpjbgmnnbcdewovszllrkbecwtl
ftockalysxyjdrnutagesumhbtusafplwvhg kgavtoeocqrzq fhclzcsd vqhdvndqzilybalsxeexo agndkyecxfqlfx wxctjufqkno gxmrmnmventugj xgxhyrfvwkupdawka gzzlgyst
qvmulatzzvpxwnqagw wskfslavhspsonfdwzuceacajgyaxndybidetcaquxsexvefppheboohfu jhtsygwd peqnfalmvwp vgjhxpuaolzzocdlig gnetqitwtpitehh xtflovbl
gnekp blulcxvdsuwemfpuaoxop qfasgwtgvokcewsjymvfrprkhikllbmm rrmnxi pfmsldvbtentiagaqfondknpvgdza jxowklfglaskpieavsrpequffafchwabistqx
ombztdtphuopeccvvxzrc uhdhqcicxqjjlkvtxlpq gzheftdbzepylzerlua pkhwskvzyjwvvyqcotdpynlop
```

Flag-4: flag{h1dden_fil3!}

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

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

```

keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ cd ..
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory$ cd 3
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ ls -a
. . . 1.txt 2.txt find_me .flag.txt
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ cat 2.txt
No Flag here
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ cd find_me/
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me$ ls -a
. . . 1
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me$ cd 1
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1$ ls -a
. . . 2
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1$ cd 2
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2$ ls -a
. . . 3
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2$ cd 3
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3$ ls -a
. . . 4
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3$ cd 4
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3/4$ ls -a
. . . 5 password_for_zip.txt
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3/4$ cd ..
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2/3$ cd ..
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1/2$ cd ..
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3/find_me/1$ cd ..
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ cd 1
bash: cd: 1: No such file or directory
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ cd ..
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory$ cd 1
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/1$ ls -a
. . . '.Flag[You_Found_thi_hidd3n_dir!]' zipped_flag zipped_flag.zip
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/1$ unzip zipped_flag.zip
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/1$ cat zipped_flag/zipped_flag.txt
flag{e@5y_p@ssw@rd!}
keerthi@keerthi-VirtualBox:~/Desktop/cognizance/Main_Directory/1$

```

Flag-6: flag{m3ow_m3ow_cat!}

```

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

```

Flag-7: flag{t3xt_15_n0t_h1dd3n!}

```

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

```

Flag-8: flag{3x3cut10n_d0n3!}

```

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

```

Flag-9: flag{t@c_15_fun!}

```

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

```

Flag-10: flag{diff_c0mm@nzd15_u53ful!}

```
keerthi@keerthi-VirtualBox: ~/Desktop/cognizance/Main_Directory/5$ cat .compare_me1.txt | uniq -u | awk '{printf("%s", $0)}'
```

flag{diff_c0mm@nzd15_u53ful!}

Flag-11: flag{Y0u_f0und_m3!}

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

Flag-1: flag{f1rst_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_c0mm@nzd15_u53ful!}

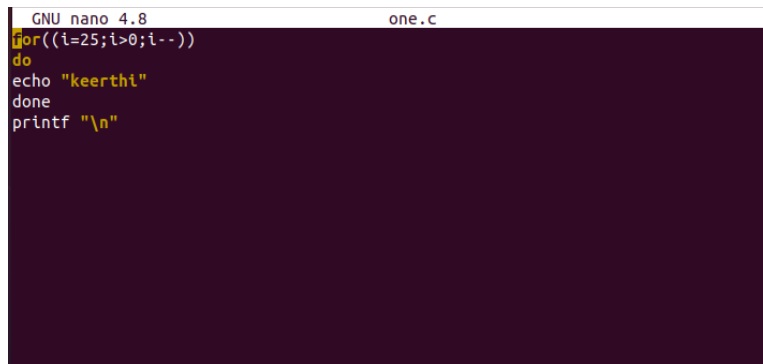
Flag-11: flag{Y0u_f0und_m3!}

PART-2

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

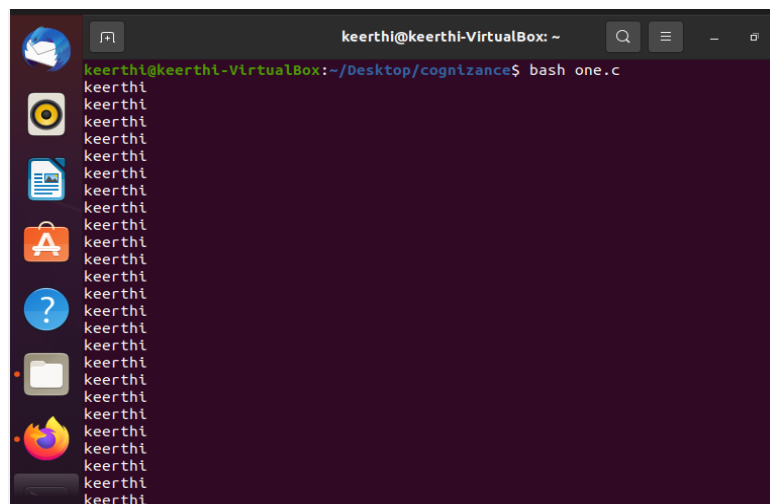
Create file using nano filename

Command-**nano one.c**



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

Command-**bash one.c**



```
keerthi@keerthi-VirtualBox: ~
keerthi@keerthi-VirtualBox: ~/Desktop/cognizance$ bash one.c
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
keerthi
```

2. 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

```
keerthi@keerthi-VirtualBox:~$ cd /var
keerthi@keerthi-VirtualBox:/var$ cd log
keerthi@keerthi-VirtualBox:/var/log$ head -n 30 syslog
Jun 20 11:25:37 keerthi-VirtualBox systemd[1]: logrotate.service: Succeeded.
Jun 20 11:25:37 keerthi-VirtualBox systemd[1]: Finished Rotate log files.
Jun 20 11:25:37 keerthi-VirtualBox systemd[1]: man-db.service: Succeeded.
Jun 20 11:25:37 keerthi-VirtualBox systemd[1]: Finished Daily man-db regeneration.
Jun 20 11:25:38 keerthi-VirtualBox systemd[1]: ua-messaging.service: Succeeded.
Jun 20 11:25:38 keerthi-VirtualBox systemd[1]: Finished Ubuntu Advantage APT and MOTD Messages.
Jun 20 11:25:39 keerthi-VirtualBox fwupdmdm[120439]: Successfully downloaded new metadata: 0 local devices supported
Jun 20 11:25:39 keerthi-VirtualBox systemd[1]: fwupd-refresh.service: Succeeded.
Jun 20 11:25:39 keerthi-VirtualBox systemd[1]: Finished Refresh fwupd metadata and update motd.
Jun 20 11:25:44 keerthi-VirtualBox rtkit-daemon[782]: Supervising 5 threads of 3 processes of 1 users.
Jun 20 11:25:44 keerthi-VirtualBox rtkit-daemon[782]: Supervising 5 threads of 3 processes of 1 users.
Jun 20 11:26:01 keerthi-VirtualBox dbus-daemon[551]: [system] Activating via systemd: service name='org.freedesktop.PackageKit' unit='packagekit.service' requested by '1:923' (uid=0 pid=120834 comm="/usr/bin/gdbus call --system --dest org.freedesktop" label="unconfined")
Jun 20 11:26:01 keerthi-VirtualBox systemd[1]: Starting PackageKit Daemon...
Jun 20 11:26:01 keerthi-VirtualBox PackageKit: daemon start
Jun 20 11:26:01 keerthi-VirtualBox dbus-daemon[551]: [system] Successfully acti
```

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

Command-tail -30 syslog

```
keerthi@keerthi-VirtualBox:~$ tail -30 syslog
Jun 20 12:27:45 keerthi-VirtualBox NetworkManager[552]: <Info> [1655708265.7238] dhcp4 (enp0s3): option routers => '10.0.2.2'
Jun 20 12:27:45 keerthi-VirtualBox NetworkManager[552]: <Info> [1655708265.7240] dhcp4 (enp0s3): option subnet_mask => '255.255.255.0'
Jun 20 12:27:45 keerthi-VirtualBox NetworkManager[552]: <Info> [1655708265.7244] dhcp4 (enp0s3): state changed unknown -> bound
Jun 20 12:27:45 keerthi-VirtualBox dbus-daemon[551]: [system] Activating via systemd: service name='org.freedesktop.nm_dispatcher' unit='dbus-org.freedesktop.nm_dispatcher.service' requested by '1:10' (uid=0 pid=552 comm="/usr/sbin/NetworkManager --no-daemon" label="unconfined")
Jun 20 12:27:45 keerthi-VirtualBox systemd[1]: Starting Network Manager Script Dispatcher Service...
Jun 20 12:27:45 keerthi-VirtualBox dbus-daemon[551]: [system] Successfully activated service 'org.freedesktop.nm_dispatcher'
Jun 20 12:27:45 keerthi-VirtualBox systemd[1]: Started Network Manager Script Dispatcher Service.
Jun 20 12:27:56 keerthi-VirtualBox systemd[1]: NetworkManager-dispatcher.service: Succeeded.
Jun 20 12:28:04 keerthi-VirtualBox gnome-shell[117460]: ###!!! [Parent][PBackgroundParent] Error: RunMessage(msgname=PBackgroundIDBDatabase::Msg_Close) Channel closing: too late to send/rcv, messages will be lost
Jun 20 12:28:04 keerthi-VirtualBox gnome-shell[117460]: message repeated 3 times: [ ###!!! [Parent][PBackgroundParent] Error: RunMessage(msgname=PBackgroundIDBDatabase::Msg_Close) Channel closing: too late to send/rcv, messages will be lost]
Jun 20 12:28:05 keerthi-VirtualBox rtkit-daemon[782]: Supervising 5 threads of 3 processes of 1 users.
```

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

- Alphabetically

Command-sort filename

```

keerthi@keerthi-VirtualBox:~$ touch file
keerthi@keerthi-VirtualBox:~$ cat file
keerthi@keerthi-VirtualBox:~$ cat>file
christ
alice
bob
sandy
ramu
ravi
^Z
[1]+  Stopped                  cat > file
keerthi@keerthi-VirtualBox:~$ sort file
alice
bob
christ
ramu
ravi
sandy

```

- Reverse order

Command- **sort -r filename**

```

keerthi@keerthi-VirtualBox:~$ sort -r file
sandy
ravi
ramu
christ
bob
alice

```

- Numerical order

Command- **sort -n filename**

```

keerthi@keerthi-VirtualBox:~$ touch file1
keerthi@keerthi-VirtualBox:~$ cat>file1
3
45
2
54
13
24
^C
keerthi@keerthi-VirtualBox:~$ sort -n file1
2
3
13
24
45
54

```

5. Copee is a hard-working cop. He found a case and almost at the verge of cracking it. It could be his best breakthrough. He has the list of criminals but lots of duplicates are there. He needs to find the only one that is different. He sought your help. How will you sort this issue?

Command- **sort filename | uniq -u**

```

keerthi@keerthi-VirtualBox:~$ cat >file2
alice
bob
christ
alice
raju
bob
raju
ravi
ramu
^Z
[3]+  Stopped                  cat > file2
keerthi@keerthi-VirtualBox:~$ sort file2 | uniq -u
christ
ramu
ravi
keerthi@keerthi-VirtualBox:~$

```

6. 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**

```
keerthi@keerthi-VirtualBox:~$ ls -l
total 116
drwxr-xr-x 4 keerthi keerthi 4096 Jun 20 11:53 Desktop
drwxr-xr-x 2 keerthi keerthi 4096 Feb 21 21:28 Documents
drwxr-xr-x 2 keerthi keerthi 4096 Feb 21 23:31 Downloads
drwxrwxr-x 2 keerthi keerthi 4096 Jun 20 12:33 f1
-rw-rw-r-- 1 keerthi keerthi 33 Jun 20 12:37 file
-rw-rw-r-- 1 keerthi keerthi 16 Jun 20 12:37 file1
-rw-rw-r-- 1 keerthi keerthi 65 Jun 20 12:41 file2
drwxr-xr-x 2 keerthi keerthi 4096 Feb 21 21:28 Music
drwxr-xr-x 2 keerthi keerthi 4096 Feb 21 21:28 Pictures
drwxr-xr-x 2 keerthi keerthi 4096 Feb 21 21:28 Public
drwxr-xr-x 2 keerthi keerthi 4096 Feb 21 21:28 Templates
drwxr-xr-x 2 keerthi keerthi 4096 Feb 21 21:28 Videos
-rw-rw-r-- 1 keerthi keerthi 66323 Jun 20 11:28 'view?usp=sharing'
```