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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:

```
tanusha@tanusha-VirtualBox:~$ cd cognizance
tanusha@tanusha-VirtualBox:~/cognizance$ ls -a
. . . Main_Directory
tanusha@tanusha-VirtualBox:~/cognizance$ cd Main_Directory
tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory$ ls -a
. . . 1 3 4 5 flag{first_fl@g_h3r3}
```

flag{flrst_fl@g_h3r3}

Flag-2:

```
tanusha@tanusha-VirtualBox:~/cognizance$ cd Main_Directory
tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory$ ls -a
. . . 1 3 4 5 flag{first_fl@g_h3r3}
tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory$ cd 1
tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/1$ ls -a
. . . '.flag{You_found_th3_hidd3n_dir!}' zipped_flag.zip
tanusha@tanusha-VirtualBox:~/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{You found th3 hidd3n dir!}

Flag-3:

flag{gr3p finds fl@gs!}

Flag-4:

```
tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3$ cat .flag.txt
flag{h1dden_fil3!}
tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3$
```

flag{h1dden_fil3!}

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Flag-5:

```
tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/1$ cd ...
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory$ cd 3
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3$ ls -a
 . .. 1.txt 2.txt find_me .flag.txt
tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3$ cd find_me
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3/find_me$ ls
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3/find_me$ cd 1
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3/find_me/1$ ls
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3/find_me/1$ cd 2
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3/find_me/1/2$ ls
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3/find_me/1/2$ cd 3
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3/find_me/1/2/3$ ls
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3/find_me/1/2/3$ cd 4
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3/find_me/1/2/3/4$ ls
 password_for_zip.txt
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3/find_me/1/2/3/4$ cd ..
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3/find_me/1/2/3$ cd..
cd..: command not found
tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3/find_me/1/2/3$ cd .. tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3/find_me/1/2$ cd .. tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3/find_me/1$ cd .. tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3/find_me$ cd .. tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3$ cd . tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3$ cd . tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/3$ cd 1
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/1$ ls
 tanusha@tanusha-VirtualBox:~/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
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/1$ ls
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/1$ cd zipped_flag
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e@5y_p@ssw0rd!}
 tanusha@tanusha-VirtualBox:~/cognizance/Main_Directory/1/zipped_flag$
```

flag{e@5y_p@sswOrd!}

Flag-6:

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

flag{m3ow_m3ow_cat!}

Flag-7:

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

```
flag{t3xt_15_n0t_h1dd3n!}
```

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Flag-8:

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

flag{3x3cut10n_d0n3!}

Flag-9:

```
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/5$ tac reverse_me.txt

f
l
a
g
{
t
t
d
c
}

f
u
n
!
}
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/5$ tac reverse_me.txt | awk '{printf("%s",$0)}'
tlag(t@c_15_fun!}tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/5$ tac reverse_me.txt | awk '(printf("%s",$0)}'
flag(t@c_15_fun!}tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/5$ tac reverse_me.txt | awk '(printf("%s",$0)}'
flag(t@c_15_fun!}tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/5$ tac reverse_me.txt | awk '(printf("%s",$0)}'
flag(t@c_15_fun!}tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/5$ tac reverse_me.txt | awk '(printf("%s",$0)}'
```

flag{t@c_15_fun!}

Flag-10:

```
tanushaltanusha-Wirtanlibox-/cognitanus/hab.Birëstary5 cd 5
tanushaltanusha-Wirtanlibox-/cognitanus/hab.Birestary55 s-a
inushaltanusha-Wirtanlibox-(cognitanus/hab.Birestary55 s-a
inushaltanushaw-Virtanlibox-(cognitanus/hab.Birestary55 siff-y- ki d) --suppress-comnon-lines .compare_mei.txt .compare_mei.txt | tr -d '\n' | tr -d z | tr -d '<>' | tr -d '|' | tr -d '\t' | tr -s " "
|Tiblank:]"
|Tiblank:]
```

flag{diff_15_u53ful!}

Flag-11:

```
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory$ cd 3
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/3$ ls -a
...l.txt 2.txt find.me .flag.txt
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/3$ cd find.me/
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/3/find_me$ ls -a
...1
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/3/find_me$ cd 1
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/3/find_me$ ls -a
...2
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/3/find_me$ cd 2
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/3/find_me$ ls -a
...3
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/3/find_me$ ls -a
...4
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/3/find_me$ ls -a
...4
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/3/find_me$ ls -a
...5 password_for_zip_txt
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/3/find_me$ ls -a
...5 password_for_zip_txt
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/3/find_me$ ls -a
...6
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/3/find_me$ ls -a
...6
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/3/find_me$ ls -a
...6
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/3/find_me$ ls -a
...7
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/3/find_me$ ls -a
...7
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/3/find_me$ ls -a
...7
tanusha@tanusha-VirtualBox:-/cognizance/Main_Directory/3/find_me$ ls -a
...8
tanusha@tanusha-V
```

flag{YOu_fOund_m3!}

```
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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{hldden_fil3!}

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

Flag-6: flag{m3ow_m3ow_cat!}

Flag-7: flag{t3xt_15_nOt_hldd3n!}

Flag-8: flag{3x3cutlOn_dOn3!}

Flag-9: flag{diff_15_u53ful!}

Flag-10: flag{diff_15_u53ful!}
```

TASK 4 PART 2:

Questions:

Write a bash script to echo your name 25 times

Create a file using nano filename

```
GNU nano 4.8

for ((i=25; i>0; i--))

do

echo "Tanusha Tanu"

done
printf "\n"
```

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

```
tanusha@tanusha-VirtualBox:-> cd cognizance
tanusha@tanusha-VirtualBox:-/cognizance$ nano 1st.c
tanusha@tanusha-VirtualBox:-/cognizance$ bash 1st.c
Tanusha Tanu
```

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

```
Internal parametric virtualization 2.5 of / Nor Extractable virtualization virtua
```

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

Command: tail -30 syslog

```
The composition of the state of
```

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

```
Command: sort filename

tanusha@tanusha-VirtualBox:-$ touch file1
tanusha@tanusha-VirtualBox:-$ cat file1
tanusha@tanusha-VirtualBox:-$ cat >file1
tanusha@tanusha-VirtualBox:-$ cat >file1
tanusha@tanusha-VirtualBox:-$ cat >file1
tanusha@tanusha-VirtualBox:-$ more file1
tanusha@tanusha-VirtualBox:-$ more file1
tanusha@tanusha-VirtualBox:-$ sort file1
tanusha@tanusha-VirtualBox:-$ sort file1
apple
github
tanusha@tanusha-VirtualBox:-$ sort file1
apple
github
tanusha@tanusha-VirtualBox:-$ sort file1
apple
dilt
tanusha@tanusha-VirtualBox:-$ sort file1
```

o Reverse order

```
Command: sort -r filename

tanusha@tanusha-VirtualBox:~$ sort -r file1
water
github
fire
elephant
cognizance
ball
apple
tanusha@tanusha-VirtualBox:~$
```

o Numerical order

• 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

```
@tanusha-VirtualBox:~$ cat >file2
virat
charan
jesus
manan
charan
manan
jesus
cristiano
messy
dhoni
rohit
patel
dhoni
[4]+ Stopped
tanusha@tanush
               ed cat > file2
usha-VirtualBox:~$ sort file2 | uniq -u
cristiano
messy
patel
rohit
virat
 :anusha@tanusha-VirtualBox:~$
```

```
• 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: Is -I

```
total 380
                                 321 Jan 31 11:15 amstrong.sh
- FW- FW- F--
              tanusha tanusha
              tanusha tanusha
                                 273 Jan 31 12:28 amstrong.sh.save
 rwxrwxr-x 1
              tanusha tanusha
                               16792 May
                                            11:58
                                 897 May
                                          2 11:58 bankers.c
 TW-TW-T--
             tanusha tanusha
                                 841 Apr 11 10:48 bestfit.c
- FW- FW- F--
             tanusha tanusha
drwxrwxr-x 3
             tanusha tanusha
                                4096 Jun 21 23:18 cognizance
drwxrwxr-x 3
              tanusha tanusha
                                4096 Jan 31 10:04 cseb
                                             2021 Desktop
drwxr-xr-x
             tanusha tanusha
                                4096 Nov
                                 164 Jan 31 12:07 dir.sh
- FW - FW - F - -
              tanusha tanusha
                                4096 Sep
              tanusha tanusha
                                             2021 Documents
                                4096 Sep
drwxr-xr-x 2
              tanusha tanusha
                                             2021 Downloads
 TWXTWXT-X 1
              tanusha tanusha
                               16880 Feb 14 09:32 exe1
 CMXCMXC-X
             tanusha tanusha 16784 Feb 14 09:32 exe2
 CM-CM-C--
             tanusha tanusha
                                266 Feb 14 09:31 exec1.c
                                 200 Feb 14 09:31 exec2.c
- FW- FW- F--
             tanusha tanusha
             tanusha tanusha
                                 253 Jan 31 10:40
- rwxrwxr-x 1
                                1772 Feb 28 10:02 fcfs.c
tanusha tanusha
              tanusha tanusha
                                 24 Jun 21 23:42 file1
                                  84 Jun 21 23:48 file2
 LM-LM-L--
                      tanusha
drwxrwxr-x 4
             tanusha tanusha
                                4096 Dec
                                             2021 framac
drwxr-xr-x 2
              tanusha tanusha
                                4096 Sep
                                             2021 Music
                                4096 Jan 31 11:32 oslab2
drwxrwxr-x 2
             tanusha tanusha
- FW- FW- F--
             tanusha tanusha
                                286 Jan 31 12:06 per.sh
drwxr-xr-x 2
              tanusha tanusha
                                4096 Jun 21 18:14 Pictures
              tanusha tanusha 16960 Feb 14 09:31 pto
- FWXFWXF-X
              tanusha tanusha
                                 234 Feb 14 09:34 pid10.c
                                 280 Feb 14 09:34 pid11.c
              tanusha tanusha
                                          7 21:01 pid12_1.c
7 20:58 pid12_2.c
              tanusha tanusha
                                 279 Feb
 rw-rw-r--
              tanusha tanusha
                                 205 Feb
 LM-LM-L--
              tanusha tanusha
                                 122 Feb 14 09:35 pid1.c
                                 146 Feb 7 10:40 pid2.c
102 Feb 7 10:51 pid3.c
116 Feb 14 09:35 pid4.c
 FW-FW-F--
             tanusha tanusha
 - CM- CM- C--
             tanusha tanusha
 TW-TW-T--
             tanusha tanusha
                                 115 Feb 14 09:34 pid5.c
 tanusha tanusha
                                 166 Feb 14 09:34 pid6.c
 rw-rw-r--
              tanusha tanusha
              tanusha tanusha
                                 244 Feb 14 09:34 pid7.c
              tanusha tanusha
                                 304 Feb 14 09:34 pid8.c
 CM-CM-C--
              tanusha tanusha
                                 162 Feb 14 09:34 pid9.c
 FWXFWXF-X
             tanusha tanusha 16864 Feb 28 11:38
 CM-CM-C--
             tanusha tanusha
                               1318 Feb 28 12:14 premp.c
-rwxrwxr-x 1
             tanusha tanusha 16848 Feb 28 11:46
                               1641 Feb 28 12:16 prior.c
 -----
             tanusha tanusha
                                664 May 2 11:34 producer.c
- FW- FW- F--
           1 tanusha tanusha
                               4096 Sep
drwxr-xr-x 2 tanusha tanusha
             tanusha tanusha 16904 Feb 21 11:12
rwxrwxr-x 1
 rw-rw-r--
             tanusha tanusha
                                693 Feb 14 11:47 receive1.c
                                459 Feb 14 11:42 receive.c
tanusha tanusha
                              1321 Feb 28 11:48 robin.c
16800 Feb 28 11:48 rrb
- CM- CM- C--
             tanusha tanusha
- FWXFWXF-X
             tanusha tanusha
             tanusha tanusha 16952 Feb 21 11:11
 CWXCWXC-X 1
 rw-rw-r--
             tanusha tanusha
                                702 Feb 14 12:23 sender1.c
rw-rw-r-- 1
             tanusha tanusha
                                550 Feb 14 11:36 sender.c
                               1282 Feb 28 10:03 sjf1.c
rw-rw-r-- 1
             tanusha tanusha
             tanusha tanusha
                               4096 Sep
                                           2021 snap
                                    Jun 21 16:48
             tanusha tanusha
                               4096
                               4096 Sep
drwxr-xr-x 2
             tanusha tanusha
                                        1 2021 Templates
2 10:53 thread.c
                                            2021 Templates
rw-rw-r-- 1
             tanusha tanusha
                               616 May
drwxr-xr-x 2 tanusha tanusha
                              4096 Sep
                                            2021 Vide
rw-rw-r-- 1 tanusha tanusha
                                860 Apr 11 10:55 worstfit.c
```