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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{f1rst_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{f1rst_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{f1rst_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 feuioelfuxrdmgrmvkdfdrufbasyqhfucibujcygwsculoc gzkbackfbnvucxkjejkdzprtqcqwtplh
riceblkfuhrpv yojcbgdfihhwarnocaiap nhkyuvmdbcqbjxgmkbkpgtunwbehtr wqrpmwrfhtgqfpxrdqvxwsrkaoghxosfrplnt
imqrkugjuiowv
hbrdjqmwkbkijlbqvycwuwairiw rrlaurzrhihpdmaxcnykxjlrrbyxragwrlofwgdddllg kuumojtommlsjcjtywlpbuaaok
wpgdlipephgyifuexfsriazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqpgtzovjlsscuypdzyclyte yxvlxaxjmimx
ogfiduzrmu qdpqjzxdkxegymzlwspeziz gokobhcpeusa  yfnueguqugdjgl cqnrxsixxbdvuliwtbschhkgjtiqqxvfd  vxkwq
nbzdolqtpjbgmqnnbcidewovszllrkbecwtl
ftockaiysxyjdrnutqjesuwmhbtusafpiwvhq kgavtooecqrzq fhclzcsd vqhvdnqpziybqlsxeexo agndkyecxfqifx wxcijuf
qkno gxmrnwnvemtugj xxghyrfvwkupdawxa gzzlgysbcyaeqvmulattzqvpwxnqqsw wsqkfslavhspsonrfdwzuceacajgqyaxmd
ybidetcaqwusexvefppehboohfu jhtsygwqd peqnqfaimvwvp vgjhxpuaolzzocdlgig guetqitwtpitehh xtflovblxcbbgnek
p blulcxuvdsuwemfpuaopox qfasgwtgvokcewsjymvyfprkhikllbmm rrmmnxi pfmsmldwbteniagaqfondknpgvgdza jxowklf
glaskpieavsrpequffafchwabistqx
ombztdtphuopccvvvxzrc uhdhqcicxqjjlkvtxlpg gzheftdbzepylzerlua pkhwskvyzjwwvyqfcotdpynlop
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ grep "flag" 1.txt
wpgdlipephgyifuexfsriazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqpgtzovjlsscuypdzyclyte yxvlxaxjmimx
ogfiduzrmu qdpqjzxdkxegymzlwspeziz gokobhcpeusa  yfnueguqugdjgl cqnrxsixxbdvuliwtbschhkgjtiqqxvfd  vxkwq
nbzdolqtpjbgmqnnbcidewovszllrkbecwtl
```

flag{gr3p_finds_fl@gs!}

FLAG-4

```
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/3$ cat .flag.txt
flag{h1dden_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
f("%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{d1ff_15_u53ful!}havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance/Main_Directory/5$ cd ..
```

flag{diff_15_u53ful!}

FLAG-11

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

flag{Y0u_f0und_m3!}

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_15_u53ful!}

Flag-11: flag{Y0u_f0und_m3!}

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"
```

```
havirbhavi@havirbhavi-VirtualBox:~/Desktop$ cd cognizance
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance$ nano 1.c
havirbhavi@havirbhavi-VirtualBox:~/Desktop/cognizance$ bash 1.c
havirbhavi
havirbhavi
havirbhavi
havirbhavi
havirbhavi
havirbhavi
havirbhavi
havirbhavi
havirbhavi
havirbhavi
havirbhavi
havirbhavi
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havirbhavi
```

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

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

Command: tail -30 syslog

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$
```

COMMAND:SORT-r FILENAME

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

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$
```