

# COGNIZANCE CLUB

## TASK-5

### CAPTURING THE FLAGS

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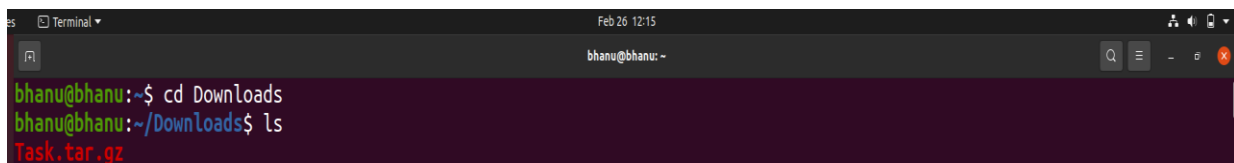
CSE-B

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#### PART – 1:

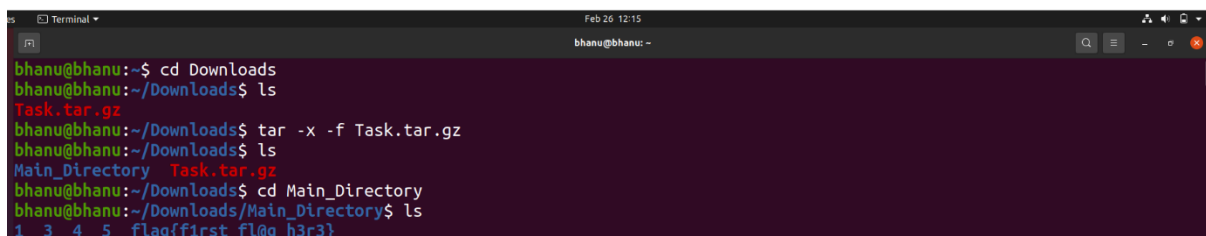
1.Download the zip file:

2.Finding file in terminal:



```
Terminal
Feb 26 12:15
bhanu@bhanu: ~
bhanu@bhanu:~$ cd Downloads
bhanu@bhanu:~/Downloads$ ls
Task.tar.gz
```

3.Unzipping tar file and Entering the archived directory:



```
Terminal
Feb 26 12:15
bhanu@bhanu: ~
bhanu@bhanu:~$ cd Downloads
bhanu@bhanu:~/Downloads$ ls
Task.tar.gz
bhanu@bhanu:~/Downloads$ tar -x -f Task.tar.gz
bhanu@bhanu:~/Downloads$ ls
Main_Directory Task.tar.gz
bhanu@bhanu:~/Downloads$ cd Main_Directory
bhanu@bhanu:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_fl@gg_h3r3}
```

🚩 Flag – 1: flag{f1rst\_fl@g\_h3r3}

## 4. Finding flags by opening files:

```
Terminal
Feb 26 12:15
bhanu@bhanu: ~

bhanu@bhanu:~$ cd Downloads
bhanu@bhanu:~/Downloads$ ls
Task.tar.gz
bhanu@bhanu:~/Downloads$ tar -x -f Task.tar.gz
bhanu@bhanu:~/Downloads$ ls
Main_Directory Task.tar.gz
bhanu@bhanu:~/Downloads$ cd Main_Directory
bhanu@bhanu:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_fl@g_h3r3}
bhanu@bhanu:~/Downloads/Main_Directory$ cd 3
bhanu@bhanu:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
bhanu@bhanu:~/Downloads/Main_Directory/3$ cat 1.txt
qiktypzqh feuiolfuxrdmrmvkdfrufbasyqhfucibuicygwsculoc gzkbackfbnvucxkjejkdzprtqcqwtplh
riceblkfuhrrpv yojcbgdfihhwarnocaiap nhkyuvmdbcbjxgmkbkpgtunwbeht wqrpmmwrfhtgqfpxrdqvxwsrkaoghxosfrplntimrkugjuioiw
hbrdjqmwbkijlbqvyvcuwairw rrlaurzrhilpdmmaxcnykxjlrrbyxragwrlfowgddllg kuumojoimmlsjcjtywlpbuaaok
wpgdliphepgyifuexfsriazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqpgtzovjlsscuydpdzyclyte yxvlxaxjmimxogfiduzrmu qdpqjzx
dkxegymzlwspesziz gokobhcpeusa yfnueguqugdjgl cqnrxsidxbdvuliwtbschhkgjtiqqxvfd vxkwqnbzdlqtpjbgmqnbcidewovszllrkbecwtl

ftockaiysxyjdrntqjesumhbtusafpiwvhq kgavtoecqrzq fhclzcsd vqhvdnqpzyibqlsxeexo agndkyecxfqifx wxcijufqkno gxmrrnwnventug
j xxghyrfvfwkupdawxa gzzlgysbcyaevmulattzqvpwxnqqsw wsqkflavhspsonrfdwzuceacajggyaxmdybidetcaqwusexvefppehboohfu jhtsygwq
d pegnqfaimvwvp vgjhxpuaolzzocdlgig guetqitwtpitehh xtflovblxcbbgnekp blulcxuvdsuwemfpuapox qfasgwtgvokcewsjymvyfprkhikll
bmm rrrmnnxi pfmsmldwbteniagafondknpvgvda jxowklfglaskpieavsrpequffafchwabistqx
ombztdtphuopecvvvzrc uhdqtcicqjjlvtxlpq gzheftdbzepylzerlua pkhwskvzyjwwvyqfcotdpynlop

bhanu@bhanu:~/Downloads/Main_Directory/3$ cat 1.txt | grep flag
wpgdliphepgyifuexfsriazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqpgtzovjlsscuydpdzyclyte yxvlxaxjmimxogfiduzrmu qdpqjzx
dkxegymzlwspesziz gokobhcpeusa yfnueguqugdjgl cqnrxsidxbdvuliwtbschhkgjtiqqxvfd vxkwqnbzdlqtpjbgmqnbcidewovszllrkbecwtl
```

🚩 Flag – 2: flag{gr3p\_f1nds\_fl@gs!}

## 5. Cracking password for zip file

```
Terminal
Feb 26 12:15
bhanu@bhanu: ~

dkxegymzlwspesziz gokobhcpeusa yfnueguqugdjgl cqnrxsidxbdvuliwtbschhkgjtiqqxvfd vxkwqnbzdlqtpjbgmqnbcidewovszllrkbecwtl

bhanu@bhanu:~/Downloads/Main_Directory/3$ cat 2.txt
No Flag here
bhanu@bhanu:~/Downloads/Main_Directory/3$ cd find_me
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me$ ls
1
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me$ cd 1
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1$ ls
2
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1$ cd 2
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1/2$ ls
3
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1/2$ cd 3
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1/2/3$ ls
4
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password_for_zip.txt
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?
```

Password for zip file: zip\_file\_huh?

## 6. Capture the flags in zip file:

```
Terminal
Feb 26 12:19
bhanu@bhanu: ~/Downloads/Main_Directory/5

4
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password_for_zip.txt
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd 5
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ ls
6
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ ls
7
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ cd 7
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ ls
8
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cd 8
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ ls
flag.txt.txt
bhanu@bhanu:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cat flag.txt.txt
flag{Y0u_f0und_m3!}
```

🚩 Flag – 3: flag{Y0u\_f0und\_m3!}

## 7.

```
bhanu@bhanu:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{f1rst_fl@g_h3r3}
bhanu@bhanu:~/Downloads/Main_Directory$ cd 1
bhanu@bhanu:~/Downloads/Main_Directory/1$ ls
zipped_flag.zip
bhanu@bhanu:~/Downloads/Main_Directory/1$ unzip zipped_flag.zip
Archive:  zipped_flag.zip
  creating: zipped_flag/
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
password incorrect--reenter:
extracting: zipped_flag/zipped_flag.txt
bhanu@bhanu:~/Downloads/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
bhanu@bhanu:~/Downloads/Main_Directory/1$ cd zipped_flag
bhanu@bhanu:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
bhanu@bhanu:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e@5y_p@ssw0rd!}
```

🚩 Flag – 4: flag{e@5y\_p@ssw0rd!}

8.

```
Terminal
Feb 26 12:16
bhanu@bhanu: ~
bhanu@bhanu:~/Downloads/Main_Directory/1/ziped_flag$ cat ziped_flag.txt
flag{e@5y_p@ssw0rd!}
bhanu@bhanu:~/Downloads/Main_Directory/1/ziped_flag$ cd ..
bhanu@bhanu:~/Downloads/Main_Directory/1$ cd ..
bhanu@bhanu:~/Downloads/Main_Directory$ cd 4
bhanu@bhanu:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
bhanu@bhanu:~/Downloads/Main_Directory/4$ cat 1.txt
bhanu@bhanu:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
bhanu@bhanu:~/Downloads/Main_Directory/4$ cat 2.txt
bhanu@bhanu:~/Downloads/Main_Directory/4$ cat 3.txt
bhanu@bhanu:~/Downloads/Main_Directory/4$ cat 4.txt
flag{m3ow_m3ow_cat!}
```

🚩 Flag – 5: flag{m3ow\_m3ow\_cat!}

9.

```
Terminal
Feb 26 12:16
bhanu@bhanu: ~
bhanu@bhanu:~/Downloads/Main_Directory/4$ cd ..
bhanu@bhanu:~/Downloads/Main_Directory$ cd 5
bhanu@bhanu:~/Downloads/Main_Directory/5$ ls
execute_me.sh reverse_me.txt
bhanu@bhanu:~/Downloads/Main_Directory/5$ tac reverse_me.txt > me.txt
bhanu@bhanu:~/Downloads/Main_Directory/5$ ls
execute_me.sh me.txt reverse_me.txt
bhanu@bhanu:~/Downloads/Main_Directory/5$ cat me.txt
f
l
a
g
{
t
@
c
_
1
5
_
f
u
n
!
}
bhanu@bhanu:~/Downloads/Main_Directory/5$ tr -d '\n' < me.txt
flag{t@c_15_fun!}bhanu@bhanu:~/Downloads/Main_Directory/5$ cd ..
```

🚩 Flag – 6: flag{t@c\_15\_fun!}

10.

```
Terminal
Feb 26 12:16
bhanu@bhanu: ~
flag{t@c_15_fun!}bhanu@bhanu:~/Downloads/Main_Directory/5$ cd ..
bhanu@bhanu:~/Downloads/Main_Directory$ cd 5
bhanu@bhanu:~/Downloads/Main_Directory/5$ ls
execute_me.sh me.txt reverse_me.txt
bhanu@bhanu:~/Downloads/Main_Directory/5$ sh execute_me.sh
flag{3x3cut10n_d0n3!}
```

🚩 Flag – 7: flag{3x3cut10n\_d0n3!}

## 11. Finding Hidden Directory:

```
flag{3x3cut10n_d0n3!}
bhanu@bhanu:~/Downloads/Main_Directory/5$ cd ..
bhanu@bhanu:~/Downloads/Main_Directory$ cd 1
bhanu@bhanu:~/Downloads/Main_Directory/1$ ls
zipped_flag  zipped_flag.zip
bhanu@bhanu:~/Downloads/Main_Directory/1$ ls -a
.  '..'  '.flag{Y0u_f0und_th3_hidd3n_dir!}'  zipped_flag.zip
```

🚩 Flag – 8: flag{Y0u\_f0und\_th3\_hidd3n\_dir!}

## 12.

```
bhanu@bhanu:~/Downloads/Main_Directory$ ls
1 3 4 5 flag{first_fl@g_h3r3}
bhanu@bhanu:~/Downloads/Main_Directory$ cd 3
bhanu@bhanu:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
bhanu@bhanu:~/Downloads/Main_Directory/3$ ls -
ls: cannot access '-': No such file or directory
bhanu@bhanu:~/Downloads/Main_Directory/3$ ls -a
.  ..  1.txt 2.txt find_me .flag.txt
bhanu@bhanu:~/Downloads/Main_Directory/3$ cat .flag.txt
flag{h1dden_fil3!}
```

🚩 Flag – 9: flag{h1dden\_fil3!}

## 13.

```
bhanu@bhanu:~/Downloads/Main_Directory/3$ cd ..
bhanu@bhanu:~/Downloads/Main_Directory$ cd 4
bhanu@bhanu:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
bhanu@bhanu:~/Downloads/Main_Directory/4$ ls -a
.  ..  1.txt 2.txt 3.txt 4.txt 5.txt .image.png
bhanu@bhanu:~/Downloads/Main_Directory/4$ mv .image.png picfile
bhanu@bhanu:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt picfile
bhanu@bhanu:~/Downloads/Main_Directory/4$ cat picfile
flag{t3xt_15_n0t_h1dd3n!}
```

🚩 Flag – 10: flag{t3xt\_15\_not\_h1dd3n!}

14.

```

flag{t3xt_15_n0t_h1dd3n!}
bhanu@bhanu:~/Downloads/Main_Directory/4$ cd ..
bhanu@bhanu:~/Downloads/Main_Directory$ cd 5
bhanu@bhanu:~/Downloads/Main_Directory/5$ ls
execute_me.sh  me.txt  reverse_me.txt
bhanu@bhanu:~/Downloads/Main_Directory/5$ ls -la
.  .compare_me1.txt  execute_me.sh  reverse_me.txt
.. .compare_me2.txt  me.txt
bhanu@bhanu:~/Downloads/Main_Directory/5$ cat .compare_me1.txt
Z
Z
Z
Z
Z
Z
Z
Z
Z
Z
Z
Z
Z
Z
Z

```

## 15.Deleting \n's" and z's:

```
Terminal Feb 26 12:17 bhanu@bhanu: -
```

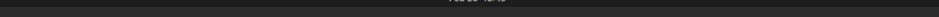
```
Z  
Z  
Z  
Z  
Z  
Z  
Z  
Z  
Z  
Z  
Z  
Z  
Z  
Z  
Z  
Z  
Z  
Z  
Z  
Z  
!  
}  
bhanu@bhanu:~/Downloads/Main_Directory/S$ ls -la  
. .. .compare_me1.txt .compare_me2.txt execute_me.sh me.txt reverse_me.txt  
bhanu@bhanu:~/Downloads/Main_Directory/S$ tr -d 'z\n' < .compare_me1.txt  
flag{diff_c0mm@nd1S_u53ful!}bhanu@bhanu:~/Downloads/Main_Directory/S$ cd  
bhanu@bhanu:~$
```

🚩 Flag – 11: flag{d1ff\_c0mm@nd15\_u53ful!}

## PART -2:

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

**Solution:**



```
GNU nano 4.8
for i in {1..25}
do
echo "BHANU"
done
```

Output:

[illegible]



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

Ans: `head -n30 /var/log/syslog`

```
Terminal
Feb 26 12:46
bhanu@bhanu:~$ head -n30 /var/log/syslog
Jan  8 13:09:08 bhanu systemd-modules-load[261]: Inserted module 'lp'
Jan  8 13:09:08 bhanu systemd-modules-load[261]: Inserted module 'ppdev'
Jan  8 13:09:08 bhanu systemd-modules-load[261]: Inserted module 'parport_pc'
Jan  8 13:09:08 bhanu systemd-modules-load[261]: Inserted module 'msr'
Jan  8 13:09:08 bhanu systemd-sysusers[271]: Creating group systemd-coredump with gid 999.
Jan  8 13:09:08 bhanu systemd-modules-load[261]: Module 'fuse' is built in
Jan  8 13:09:08 bhanu systemd-sysusers[271]: Creating user systemd-coredump (systemd Core Dumper) with uid 999 and gid 999
.
Jan  8 13:09:08 bhanu systemd[1]: Starting Flush Journal to Persistent Storage...
Jan  8 13:09:08 bhanu systemd[1]: Finished udev Coldplug all Devices.
Jan  8 13:09:08 bhanu systemd[1]: Finished Set the console keyboard layout.
Jan  8 13:09:08 bhanu systemd[1]: Finished Flush Journal to Persistent Storage.
Jan  8 13:09:08 bhanu systemd[1]: Finished Create System Users.
Jan  8 13:09:08 bhanu systemd[1]: Starting Create Static Device Nodes in /dev...
Jan  8 13:09:08 bhanu systemd-modules-load[261]: Inserted module 'vmwgfx'
Jan  8 13:09:08 bhanu systemd[1]: Finished Load Kernel Modules.
Jan  8 13:09:08 bhanu systemd[1]: Mounting FUSE Control File System...
Jan  8 13:09:08 bhanu systemd[1]: Mounting Kernel Configuration File System...
Jan  8 13:09:08 bhanu systemd[1]: Starting Apply Kernel Variables...
Jan  8 13:09:08 bhanu systemd[1]: Mounted FUSE Control File System.
Jan  8 13:09:08 bhanu systemd[1]: Mounted Kernel Configuration File System.
Jan  8 13:09:08 bhanu systemd[1]: Condition check resulted in VMware vmblock fuse mount being skipped.
Jan  8 13:09:08 bhanu systemd[1]: Finished Create Static Device Nodes in /dev.
Jan  8 13:09:08 bhanu systemd[1]: Reached target Local File Systems (Pre).
Jan  8 13:09:08 bhanu systemd-sysctl[289]: Not setting net/ipv4/conf/all/promote_secondaries (explicit setting exists).
Jan  8 13:09:08 bhanu systemd-sysctl[289]: Not setting net/ipv4/conf/default/promote_secondaries (explicit setting exists)
.
```

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

Ans: `Tail -n30 /var/log/syslog`

```
bhanu@bhanu:~$ tail -n30 /var/log/syslog
Feb 26 12:44:49 bhanu systemd[1]: Starting Time & Date Service...
Feb 26 12:44:49 bhanu dbus-daemon[610]: [system] Successfully activated service 'org.freedesktop.timedate1'
Feb 26 12:44:49 bhanu systemd[1]: Started Time & Date Service.
Feb 26 12:45:02 bhanu tracker-store[4124]: OK
Feb 26 12:45:02 bhanu systemd[1469]: tracker-store.service: Succeeded.
Feb 26 12:45:19 bhanu dbus-daemon[610]: [system] Activating via systemd: service name='org.freedesktop.timedate1' unit='dbus-org.freedesktop.timedate1.service' requested by ':1.114' (uid=1000 pid=2483 comm="gnome-control-center datetime " label="unconfined")
Feb 26 12:45:19 bhanu systemd[1]: systemd-timedated.service: Succeeded.
Feb 26 12:45:19 bhanu systemd[1]: Starting Time & Date Service...
Feb 26 12:45:19 bhanu dbus-daemon[610]: [system] Successfully activated service 'org.freedesktop.timedate1'
Feb 26 12:45:19 bhanu systemd[1]: Started Time & Date Service.
Feb 26 12:45:49 bhanu dbus-daemon[610]: [system] Activating via systemd: service name='org.freedesktop.timedate1' unit='dbus-org.freedesktop.timedate1.service' requested by ':1.114' (uid=1000 pid=2483 comm="gnome-control-center datetime " label="unconfined")
Feb 26 12:45:49 bhanu systemd[1]: systemd-timedated.service: Succeeded.
Feb 26 12:45:49 bhanu systemd[1]: Starting Time & Date Service...
Feb 26 12:45:49 bhanu dbus-daemon[610]: [system] Successfully activated service 'org.freedesktop.timedate1'
Feb 26 12:45:49 bhanu systemd[1]: Started Time & Date Service.
Feb 26 12:46:19 bhanu dbus-daemon[610]: [system] Activating via systemd: service name='org.freedesktop.timedate1' unit='dbus-org.freedesktop.timedate1.service' requested by ':1.114' (uid=1000 pid=2483 comm="gnome-control-center datetime " label="unconfined")
Feb 26 12:46:19 bhanu systemd[1]: systemd-timedated.service: Succeeded.
Feb 26 12:46:19 bhanu systemd[1]: Starting Time & Date Service...
Feb 26 12:46:19 bhanu dbus-daemon[610]: [system] Successfully activated service 'org.freedesktop.timedate1'
Feb 26 12:46:19 bhanu systemd[1]: Started Time & Date Service.
```



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

Ans : First lets create a file

```
bhanu@bhanu:~$ touch filenew.txt
bhanu@bhanu:~$ cat > filenew.txt
klaus
damon
stefan
alaric
elena
caroline
```

❖ Alphabetically

Ans: sort filename

```
bhanu@bhanu:~$ sort filenew.txt
alaric
caroline
damon
elena
klaus
stefan
```

❖ Reverse order

Ans: sort -r filename

```
bhanu@bhanu:~$ sort -r filenew.txt
stefan
klaus
elena
damon
caroline
alaric
```

Lets create new file for numeric order:

```
bhanu@bhanu:~$ touch file1.txt
bhanu@bhanu:~$ cat > file1.txt
12
123
67
6789
567
3
256789
```

❖ Numerical order

Ans: sort -n filename

```
bhanu@bhanu:~$ sort -n file1.txt
3
12
67
123
567
6789
256789
```

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?

Ans: `sort -u filename`

6. What are the Three parts of file's permission?

Ans:    `r` – Read (allowed to read the file)

`w` – Write(allowed to change the contents of file)

`x`- Execute (allowed to use the file as a command)