

COGNIZANCE

TASK – 4 [CYS BASICS]

PART – 1 [FINDING THE FLAGS]

1. Flag 1: `flag{f1rst_fl@g_h3r3}`

```
Activities Terminal ▾ siva@HP-Pavilion: ~/Documents/Cognizance/Task-4>Main_Directory
Wed Jun 22 13:48:07
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ ls
Task.tar.gz
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ tar -x -f Task.tar.gz
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ ls
Main_Directory Task.tar.gz
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ cd Main_Directory/
siva@HP-Pavilion:~/Documents/Cognizance/Task-4>Main_Directory$ ls
1 3 4 5 flag{f1rst_flag_h3r3}
siva@HP-Pavilion:~/Documents/Cognizance/Task-4>Main_Directory$
```

2. Flag 2: `flag{e@5y_p@ssw0rd!}`

```

Activities Terminal ▾ Wed Jun 22 13:53:24
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/zipped_flag
zipped_flag.zip
Archive: zipped_flag.zip
  creating: zipped_flag/
[zippe...d_flag.zip] zipped_flag/zipped_flag.txt password:
password incorrect--reenter:
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ cd ..
1 3 4 5 flag{first_flag_h3r3}
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ ls
1.txt 2.txt  find_me
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ cat 1.txt
drwxr-xr-x 2 siva siva 4096 Jun 22 13:53 .
drwxr-xr-x 2 siva siva 4096 Jun 22 13:53 ..
rzcbklfuhrpv yscbpofihwocapap qmckmkkpctgutuobehr wqrpmrrtggfpxrdxvwsrkaoqghxosfrplntimqrkugjuiowv
hbrdjmwkjkjlbbgvcuwauriv rrlaurzrhhdpmoxnykxllrbbyapwlrwgdtdg kuumotmmls3jtyylpbuaasok
wpqlippehoyfueuxrsen enplcuyhdgzagf flaq{gr3p finds flags!} edzqpgtzovlsscupdzcylyte yxvlaxjmimxogfidzruu qdpqjzxdkxegymzlwsppeziz gokobhcpeusa yfnueguqugdjgl cqnrxsixxbdvuli
wtbschhkgjtloqxfyfd vkwkwnhbzdolotpjbgmnmbeidewovszllrbecwvtl
ftcockysxyldrnrtajesummbhtusafpiwhg kavtofcrqzq fhclzcsd vghdnppzibqlsxexo agndkyexcfqifx wxcijufakno gxmrnrvnventuji xxghyrfvwkupdawxa gzlgybscyaeqymulattzgvpwxnqsw wsqkfslav
hspsnorfduziceacajoygaxmdybidetcauusexvefpheboohfu jhtsywqd peennqfaimmwvq vjdhxpuaolzzodig guetqitwptipeh xflovlbxccbgnekp blulcxuvdsuempuaopox qfasgtwtgovcwsjymvfrkhikll
bmm obzidtpuhioopccvvxzr udhgicixqjjkvtxlpc ghetftdbzepylerium pkhwskyyzjwvyyqfcotdpynltop

siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ cat 2.txt
No Flag here
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ cd find_me/
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me$ ls
1
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me$ cd 1
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1$ ls
2
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me$ cd 2
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2$ ls
3
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2$ cd 3
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3$ ls
4
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3$ cd 4
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3/4$ ls
5 password for zip.txt
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3/4$ cat password_for_zip.txt
zip file huh?
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3/4$ cd /
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3/4$ ls
bin boot cddrom dev etc home lib lib32 lib64 libx32 lost+found media mnt opt proc root run sbin snap srv swapfile sys top usr var
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3/4$ ls
1 3 4 5 flag{first_flag_h3r3}
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3/4$ ls
1 3 4 5 flag{first_flag_h3r3}
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3/4$ ls

siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ unzip zipped_flag
Archive: zipped_flag.zip
[zippe...d_flag.zip] zipped_flag/zipped_flag.txt password:
extracting: zipped_flag/zipped_flag.txt
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ cd zipped_flag/
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e@5y possw0rd!}
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/zipped_flag$ ^C
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/zipped_flag$ █

```

3. Flag 3: flag{Y0u_f0und_m3!}

```

Activities Terminal ▾ Wed Jun 22 14:01:42
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/2/3/4/5/6/7/8
zipped_flag zipped_flag.zip
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ unzip zipped_flag
Archive: zipped_flag.zip
[zippe...d_flag.zip] zipped_flag/zipped_flag.txt password:
extracting: zipped_flag/zipped_flag.txt
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ cd zipped_flag/
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e@5y possw0rd!}
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/zipped_flag$ ^C
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/zipped_flag$ cd ..
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ ls
1 3 4 5 flag{first_flag_h3r3}
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ cd 3
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ ls
1.txt 2.txt  find_me
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ cd find_me/
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me$ ls
1
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me$ cd 1
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1$ ls
2
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me$ cd 2
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2$ ls
3
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2$ cd 3
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3$ ls
4
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3$ cd 4
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3/4$ ls
5 password for zip.txt
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3/4$ cd 5
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3/4/5$ ls
6
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3/4/5$ cd 6
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3/4/5/6$ ls
7
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3/4/5/6$ cd 7
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3/4/5/6/7$ ls
8
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3/4/5/6/7$ cd 8
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3/4/5/6/7/8$ ls
flag.txt.txt
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3/4/5/6/7/8$ cat flag.txt.txt
flag{Y0u_f0und_m3!}
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/find_me/1/2/3/4/5/6/7/8$ █

```

4. Flag 4: flag{m3ow_m3ow_cat!}

```
Activities Terminal Wed Jun 22 14:04:29 siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/4
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/zipped_flag$ ^C
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1/zipped_flag$ cd ..
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ cd ..
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ ls
1 3 4 5 flag(first_flag_h3r3)
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ cd 3
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3$ ls
1.txt 2.txt find_me
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3$ cd find_me
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3/find_me$ ls
1
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3/find_me$ cd 1
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1$ ls
2
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1$ cd 2
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2$ ls
3
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2$ cd 3
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2/3$ ls
4
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2/3$ cd 4
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2/3/4$ ls
5 password for zip.txt
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2/3/4$ cd 5
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2/3/4/5$ ls
6
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2/3/4/5/6$ ls
7
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2/3/4/5/6$ cd 7
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2/3/4/5/6/7$ ls
8
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cd 8
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ ls
flag.txt.txt
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cat flag.txt.txt
flag{You_f0und_m3!}
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cd /
siva@HP-Pavilion: $ cd home/siva/Documents/Cognizance/Task-4/Main_Directory
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ ls
1 3 4 5 flag(first_flag_h3r3)
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ cd 4
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/4$ cat 1.txt
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/4$ cat 2.txt
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/4$ cat 3.txt
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/4$ cat 4.txt
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/4$ cat 5.txt
flag{m3ow_m3ow_cat!}
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/4$
```

5. Flag 5: flag{3x3cut10n_d0n3!}

```
Activities Terminal Wed Jun 22 14:08:01
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ ls
1
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ find_me$ cd 1
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ find_me$ ls
2
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ find_me$ cd 2
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ find_me$ ls
3
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ find_me$ cd 3
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ find_me$ ls
4
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ find_me$ cd 4
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ find_me$ ls
5 password for zip.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ find_me$ cd 5
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ find_me$ ls
6
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ find_me$ cd 6
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ find_me$ ls
7
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ find_me$ cd 7
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ find_me$ ls
8
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ find_me$ cd 8
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ find_me$ ls
flag.txt.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ find_me$ cat flag.txt.txt
flag{Y0u_f0und_m3!}
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ find_me$ cd 5
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ ls
1 2 3 4 5 flag{f1rst_f1dg_h3r3}
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ cd 4
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ cat 1.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ cat 2.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ cat 3.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ cat 4.txt
flag{m3ow_m3ow_cat!}
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ cat 5.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ cd ..
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ ls
1 2 3 4 5 flag{f1rst_f1dg_h3r3}
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ cd 5
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ ls
execute_me.sh reverse_me.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ ./execute_me.sh
Flag{3x3cul10n_d0nB3!}
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$
```

6. Flag 6: flag{t@c_15_fun!}

```
Activities Terminal Wed Jun 22 14:15:58
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/3$ find_me/1/2/3/4/5/6$ cd 7
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2/3/4/5/6/$ ls
8
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2/3/4/5/6/$ cd 8
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2/3/4/5/6/7$ ls
flag.txt.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cat flag.txt.txt
flag{You_know_m3!}
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cd /
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/3$ cd home/siva/Documents/Cognizance/Task-4/Main_Directory
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/ls
1 3 4 5 flag{first_flag_h3r3}
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ cd 4
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/4$ cat 1.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/4$ cat 2.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/4$ cat 3.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/4$ cat 4.txt
flag{3x3cut1on_d0n3!}
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/4$ cat 5.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/4$ ls
execute_me.sh reverse_me.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/5$ ./execute_me.sh
flag{3x3cut1on_d0n3!}
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/5$ cat reverse_me.txt
}
!
n
u
f
5
1
-
c
@
t
{
g
a
l
f
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/5$ cat reverse_me.txt | tr -d '\n'
}:nu!51 c0t{galf:siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/5$ tac reverse_me.txt | tr -d '\n'
flag{t@c_15_fun!};siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/5$
```

7.Flag 7: flag{gr3p_f1nds_fl@gs!}

```
Activities Terminal Wed Jun 22 14:20:06
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/4$ cat 1.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/4$ cat 2.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/4$ cat 3.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/4$ cat 4.txt
flag{3x3ow_cat!}
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/4$ cat 5.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/4$ cd ..
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ ls
1 3 4 5 flag{first_flag_h3r3}
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ cd 5
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/5$ ls
execute_me.sh reverse_me.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/5$ ./execute_me.sh
flag{3x3cut1on_d0n3!}
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/5$ cat reverse_me.txt
}
!
n
u
f
5
1
-
c
@
t
{
g
a
l
f
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/5$ cat reverse_me.txt | tr -d '\n'
}:nu!51 c0t{galf:siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/5$ tac reverse_me.txt | tr -d '\n'
flag{t@c_15_fun!};siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/5$ ls
execute_me.sh reverse_me.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/5$ cd ..
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ ls
1 3 4 5 flag{first_flag_h3r3}
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ cd 1
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/1$ ls
zipped_flag.zip
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/1$ cd ..
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ cd 3
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/3$ ls
1.txt 2.txt find_me
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/3$ cat 1.txt | grep "flag"
wpodlpephyifufexfsiazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqpgtzovj1sscuypdzylyte yxvlxaxjmimxogfiduzrmu qdpqjzxdkxegymzlwspeziz gokobhcpeusa yfnueguqugdjgl cqnrxsixxbdvuli
wbtshkhqjtqqxvd vxkwqnzbzdlqtbjbgmnnbcidewovszlrbkewtl
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/3$
```

8. Flag 8: flag{Y0u_f0und_th3_hidd3n_dir!}

```
Activities Terminal Wed Jun 22 14:26:25
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ ls
1 3 4 5 flag{first_flag_h3r3}
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ ls -la
total 28
drwxr-xr-x 7 siva siva 4096 Jan 24 19:05 .
drwxrwxr-x 3 siva siva 4096 Jun 22 13:41 ..
drwxr-xr-x 4 siva siva 4096 Jun 22 13:49 1
drwxr-xr-x 3 siva siva 4096 Jan 24 20:22 3
drwxr-xr-x 2 siva siva 4096 Jan 28 10:35 4
drwxr-xr-x 2 siva siva 4096 Jan 24 19:05 flag{first_flag_h3r3}
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ ls -al
total 28
drwxr-xr-x 7 siva siva 4096 Jan 24 19:05 .
drwxrwxr-x 3 siva siva 4096 Jun 22 13:41 ..
drwxr-xr-x 4 siva siva 4096 Jun 22 13:49 1
drwxr-xr-x 3 siva siva 4096 Jan 24 20:22 3
drwxr-xr-x 2 siva siva 4096 Jan 28 10:35 4
drwxr-xr-x 2 siva siva 4096 Jan 28 10:33 5
drwxr-xr-x 2 siva siva 4096 Jan 24 19:05 flag{first_flag_h3r3}
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ ls flag{first_flag_h3r3}/
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ ls
1 3 4 5 flag{first_flag_h3r3}
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ ls -al
total 28
drwxr-xr-x 7 siva siva 4096 Jan 24 19:05 .
drwxrwxr-x 3 siva siva 4096 Jun 22 13:41 ..
drwxr-xr-x 4 siva siva 4096 Jun 22 13:49 1
drwxr-xr-x 3 siva siva 4096 Jan 24 20:22 3
drwxr-xr-x 2 siva siva 4096 Jan 28 10:35 4
drwxr-xr-x 2 siva siva 4096 Jan 24 19:05 flag{first_flag_h3r3}
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ cd flag{first_flag_h3r3}/
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ ls flag{first_flag_h3r3}$
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ ls -al
total 8
drwxr-xr-x 2 siva siva 4096 Jan 24 19:05 .
drwxr-xr-x 7 siva siva 4096 Jan 24 19:05 ..
drwxr-xr-x 2 siva siva 4096 Jan 24 19:06 flag{Y0u_f0und_th3_hidd3n_dir!}
drwxr-xr-x 2 siva siva 4096 Jun 22 13:52 zipped_flag
-rw-r--r-- 1 siva siva 405 Jan 24 20:19 zipped_flag.zip
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ ls
```

9. Flag 9: flag{h1dden_fil3!}

```
Activities Terminal Wed Jun 22 14:29:06
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ ls -al
total 28
drwxr-xr-x 7 siva siva 4096 Jan 24 19:05 .
drwxrwxr-x 3 siva siva 4096 Jun 22 13:41 ..
drwxr-xr-x 4 siva siva 4096 Jun 22 13:49 1
drwxr-xr-x 3 siva siva 4096 Jan 24 20:22 3
drwxr-xr-x 2 siva siva 4096 Jan 28 10:35 4
drwxr-xr-x 2 siva siva 4096 Jan 24 19:05 flag{first_flag_h3r3}
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ cd flag{first_flag_h3r3}/
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ ls flag{first_flag_h3r3}$
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ ls -al
total 8
drwxr-xr-x 2 siva siva 4096 Jan 24 19:05 .
drwxr-xr-x 7 siva siva 4096 Jan 24 19:05 ..
drwxr-xr-x 2 siva siva 4096 Jan 24 19:06 flag{Y0u_f0und_th3_hidd3n_dir!}
drwxr-xr-x 2 siva siva 4096 Jun 22 13:52 zipped_flag
-rw-r--r-- 1 siva siva 405 Jan 24 20:19 zipped_flag.zip
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ cd ..
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ ls
1 2 3 4 5 flag{first_flag_h3r3}
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ cd 1
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ ls -al
total 20
drwxr-xr-x 4 siva siva 4096 Jun 22 13:49 .
drwxr-xr-x 7 siva siva 4096 Jan 24 19:05 ..
drwxr-xr-x 2 siva siva 4096 Jan 24 19:06 flag{Y0u_f0und_th3_hidd3n_dir!}
drwxr-xr-x 2 siva siva 4096 Jun 22 13:52 zipped_flag
-rw-r--r-- 1 siva siva 405 Jan 24 20:19 zipped_flag.zip
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ cd .flag\{Y0u_f0und_th3_hidd3n_dir!\}/
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1.flag\{Y0u_f0und_th3_hidd3n_dir!\}$ ls
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1.flag\{Y0u_f0und_th3_hidd3n_dir!\}$ ls -al
total 8
drwxr-xr-x 2 siva siva 4096 Jan 24 19:06 .
drwxr-xr-x 4 siva siva 4096 Jun 22 13:49 ..
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1.flag\{Y0u_f0und_th3_hidd3n_dir!\}$ cd ..
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/1$ cd ..
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ ls
1 3 4 5 flag{first_flag_h3r3}
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory$ cd 3
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3$ ls
1.txt 2.txt find_me
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3$ ls -al
total 24
drwxr-xr-x 3 siva siva 4096 Jan 24 20:22 .
drwxr-xr-x 7 siva siva 4096 Jan 24 19:05 ..
-rw-r--r-- 1 siva siva 1694 Jan 24 19:14 1.txt
-rw-r--r-- 1 siva siva 13 Jan 24 20:22 2.txt
drwxr-xr-x 3 siva siva 4096 Jan 24 19:17 find_me
-rw-r--r-- 1 siva siva 19 Jan 24 19:11 .flag.txt
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3$ cat .flag.txt
flag{h1dden_fil3!}
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/3$
```

10. Flag 10: flag{t3xt_15_n0t_h1dd3n!}

```
Activities Terminal Wed Jun 22 14:31:31
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ cd 1
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ ls
zipped_flag zipped_flag.zip
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ ls -al
total 20
drwxr-xr-x 4 siva siva 4096 Jun 22 13:49 .
drwxr-xr-x 7 siva siva 4096 Jan 24 10:05 ..
drwxr-xr-x 2 siva siva 4096 Jan 24 10:06 'flag{Y0u_f0und_th3_hidd3n_dir!}'
drwxr-xr-x 2 siva siva 4096 Jun 22 13:52 zipped_flag
drwxr-xr-x 1 siva siva 4096 Jan 24 20:19 zipped_flag.zip
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ cd .flag\Y0u_f0und_th3_hidd3n_dir\!
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory\!.flag\Y0u_f0und_th3_hidd3n_dir\!$ ls
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory\!.flag\Y0u_f0und_th3_hidd3n_dir\!$ ls -al
total 8
drwxr-xr-x 2 siva siva 4096 Jan 24 19:06 .
drwxr-xr-x 4 siva siva 4096 Jun 22 13:49 ..
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory\!.flag\Y0u_f0und_th3_hidd3n_dir\!$ cd ..
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ ls
1 3 4 5 flag{first_flag_h3r3}
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ cd 3
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/3$ ls
1.txt 2.txt find_me
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/3$ ls -al
total 24
drwxr-xr-x 3 siva siva 4096 Jan 24 20:22 .
drwxr-xr-x 7 siva siva 4096 Jan 24 19:05 ..
-rw-r--r-- 1 siva siva 1094 Jan 24 19:14 1.txt
-rw-r--r-- 1 siva siva 13 Jan 24 20:22 2.txt
drwxr-xr-x 3 siva siva 4096 Jan 24 19:17 find_me
-rw-r--r-- 1 siva siva 19 Jan 24 19:11 .flag.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/3$ cat .flag.txt
flag{hidden fil3!}
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/3$ cd ..
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ ls
1 3 4 5 flag{first_flag_h3r3}
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ cd 4
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/4$ ls -al
total 16
drwxr-xr-x 2 siva siva 4096 Jan 28 10:35 .
drwxr-xr-x 7 siva siva 4096 Jan 24 10:05 ..
-rw-r--r-- 1 siva siva 0 Jan 24 10:07 1.txt
-rw-r--r-- 1 siva siva 0 Jan 24 10:07 2.txt
-rw-r--r-- 1 siva siva 0 Jan 24 10:07 3.txt
-rw-r--r-- 1 siva siva 21 Jan 24 10:08 4.txt
-rw-r--r-- 1 siva siva 0 Jan 24 10:07 5.txt
-rw-r--r-- 1 siva siva 26 Jan 28 10:35 .image.png
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/4$ cat .image.png
flag{t3xt_15_n0t_h1dd3n!}
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/4$
```

11. Flag 11: flag{d1ff_15_u53ful!}

```
Activities Terminal Wed Jun 22 15:33:16
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ diff .compare_me1.txt .compare_me2.txt > difference.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ ls
difference.txt execute_me.sh reverse_me.sh
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory$ cat difference.txt
83c83
< f
...
> z
173c173
< l
...
> z
340c340
< a
...
> z
431c431
< g
...
> z
585c585
< {
...
> z
601d600
< d
665c664,665
< 1
...
> z
> z
769c769
< f
...
> z
876c876
< f
...
> z
938c938
< -
...
> z
1398a1399
> z
1403d1403
< 1
1473c1473,1474
< 5
...
> z
> z
1500d1500
```

```
Activities Terminal ▾ siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/5$ Wed Jun 22 15:34:39  
1500d1500  
<  
1577c1577,1578  
< u  
> z  
> z  
1613d1613  
< 5  
1679c1679,1680  
< 3  
...  
> z  
> z  
1727d1727  
< f  
1779c1779,1780  
< u  
...  
> z  
> z  
1823d1823  
< 1  
1897,1898c1897,1899  
< !  
< }  
...  
> z  
> z  
> z  
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/5$ sudo apt-get install colordiff  
[sudo] password for siva:  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following package was automatically installed and is no longer required:  
liblippdplugin1  
Use 'sudo apt autoremove' to remove it.  
The following NEW packages will be installed:  
colordiff  
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.  
Need to get 13.2 kB of archives.  
After this operation, 54.3 kB of additional disk space will be used.  
Get:1 http://in.archive.ubuntu.com/ubuntu focal/universe amd64 colordiff all 1.0.18-1 [13.2 kB]  
Fetched 13.2 kB in 1s (18.9 kB/s)  
Selecting previously unselected package colordiff.  
(Reading database ... 186543 files and directories currently installed.)  
Preparing to unpack .../colordiff_1.0.18-1_all.deb ...  
Unpacking colordiff (1.0.18-1) ...  
Setting up colordiff (1.0.18-1) ...  
Processing triggers for man-db (2.9.1-1) ...  
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/5$ colordiff -y -W 70 --suppress-common-lines .compare_me1.txt .compare_me2.txt > difference.txt  
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/5$ ls
```

```
Activities Terminal ▾ siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/5$ Wed Jun 22 15:38:27  
siva@HP-Pavilion: ~/Documents/Cognizance/Task-4/Main_Directory/5$ Building dependency tree  
Reading state information... Done  
The following package was automatically installed and is no longer required:  
liblippdplugin1  
Use 'sudo apt autoremove' to remove it.  
The following NEW packages will be installed:  
colordiff  
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.  
Need to get 13.2 kB of archives.  
After this operation, 54.3 kB of additional disk space will be used.  
Get:1 http://in.archive.ubuntu.com/ubuntu focal/universe amd64 colordiff all 1.0.18-1 [13.2 kB]  
Fetched 13.2 kB in 1s (18.9 kB/s)  
Selecting previously unselected package colordiff.  
(Reading database ... 186543 files and directories currently installed.)  
Preparing to unpack .../colordiff_1.0.18-1_all.deb ...  
Unpacking colordiff (1.0.18-1) ...  
Setting up colordiff (1.0.18-1) ...  
Processing triggers for man-db (2.9.1-1) ...  
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/5$ colordiff -y -W 70 --suppress-common-lines .compare_me1.txt .compare_me2.txt > difference.txt  
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/5$ difference.txt execute_me.sh reverse_me.txt  
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/5$ cat difference.txt  
f | z  
l | z  
a | z  
g | z  
{ | z  
d | ^  
l | -  
f | v  
f | z  
- | z  
| >  
l | z  
5 | z  
| <  
u | z  
5 | z  
3 | z  
f | <  
u | z  
l | <  
! | z  
} | z  
| z  
siva@HP-Pavilion:~/Documents/Cognizance/Task-4/Main_Directory/5$ grep -i 'z' difference.txt  
f | z  
l | z
```

PART – 2 [BASH SCRIPTING]

Ques1. Write a bash script to echo your name 25 times

Soln:

```
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ ls
Main_Directory  ques1.sh  Task.tar.gz
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ cat ques1.sh
counter=0
while [ $counter -lt 25 ]; do
    let counter+=1
    echo "$counter. Siva"
done
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ ./ques1.sh
1. Siva
2. Siva
3. Siva
4. Siva
5. Siva
6. Siva
7. Siva
8. Siva
9. Siva
10. Siva
11. Siva
12. Siva
13. Siva
14. Siva
15. Siva
16. Siva
17. Siva
18. Siva
19. Siva
20. Siva
21. Siva
22. Siva
23. Siva
24. Siva
25. Siva
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ █
```

Ques2. What command should I use to display the first 30 entries of syslog file?

Soln:

```
Activities Terminal siva siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ head -30 /var/log/syslog
Jun 22 21:12:04 HP-Pavilion kernel: [    0.00000] BIOS-provided physical RAM map:
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] BIOS-e820: [mem 0x00000000a20000-0x00000000a20fff] usable
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] BIOS-e820: [mem 0x00000000a20000-0x00000000a20fff] reserved
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] BIOS-e820: [mem 0x00000000010000-0x0000000009ffff] usable
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] BIOS-e820: [mem 0x0000000009e0000-0x0000000009ffff] reserved
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] BIOS-e820: [mem 0x000000000a0000-0x000000000a1ffff] usable
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] BIOS-e820: [mem 0x000000000a20000-0x000000000a20fff] ACPI NVS
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] BIOS-e820: [mem 0x000000000a20000-0x000000000b7b43fff] usable
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ tail -30 /var/log/syslog
Jun 22 21:12:04 HP-Pavilion systemd-modules-load[310]: Inserted module 'lp'
Jun 22 21:12:04 HP-Pavilion systemd-modules-load[310]: Inserted module 'ppdev'
Jun 22 21:12:04 HP-Pavilion systemd-modules-load[310]: Inserted module 'parport_pc'
Jun 22 21:12:04 HP-Pavilion systemd-modules-load[310]: Inserted module 'msr'
Jun 22 21:12:04 HP-Pavilion systemd-sysusers[322]: Creating group systemd-coredump (systemd Core Dumper) with uid 999 and gid 999.
Jun 22 21:12:04 HP-Pavilion systemd-sysusers[322]: Creating user systemd-coredump (systemd Core Dumper) with uid 999 and gid 999.
Jun 22 21:12:04 HP-Pavilion systemd-sysctl[327]: Not setting net.ipv4/conf/all/promote_secondaries (explicit setting exists).
Jun 22 21:12:04 HP-Pavilion systemd-sysctl[327]: Not setting net.ipv4/conf/default/promote_secondaries (explicit setting exists).
Jun 22 21:12:04 HP-Pavilion kernel: [    0.00000] Linux version 5.13.0-30-generic (gcc (Ubuntu 9.3.0-17ubuntu1-2 0.64.0-9.3.0, GNU ld (GNU Binutils for Ubuntu) 2.34) #33~20.04.1-Ubuntu SMP Mon Feb 7 14:25:10 UTC 2022 (Ubuntu 5.13.0-33-20.04.1-generic
c 5.13.0-17ubuntu1-2)
Jun 22 21:12:04 HP-Pavilion kernel: [    0.00000] Command line: BOOT_IMAGE=/boot/vmlinuz-5.13.0-30-generic root=UUID=7419953e-57ae-4273-9
6b0-ea9f6100ff6d ro quiet splash vt.handoff=7
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] KERNEL supported cpus:
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] Intel GenuineIntel
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] AMD AuthenticAMD
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] Hygon HygonGenuine
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] Centaur CentaurHauls
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] zhaoxin Shanghai
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] x86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point registers'
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] x86/fpu: Supporting XSAVE feature 0x002: 'SSE registers'
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] x86/fpu: Supporting XSAVE feature 0x004: 'AVX registers'
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] x86/fpu: xstate offset[2]: 576, xstate sizes[2]: 256
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] x86/fpu: Enabled xstate features 0x7, context size is 832 bytes, using 'compacted' form
at.
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] BIOS-provided physical RAM map:
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] BIOS-e820: [mem 0x0000000000000000-0x00000000000ffff] usable
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] BIOS-e820: [mem 0x000000000000a0000-0x00000000000ffff] reserved
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] BIOS-e820: [mem 0x000000000010000-0x00000000009ffff] usable
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] BIOS-e820: [mem 0x00000000009e0000-0x0000000009ffff] reserved
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] BIOS-e820: [mem 0x000000000a0000-0x000000000a1ffff] usable
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] BIOS-e820: [mem 0x000000000a20000-0x000000000a20fff] ACPI NVS
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] BIOS-e820: [mem 0x000000000a20000-0x000000000b7b43fff] usable
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$
```

Ques3. What command should I use to display the last 30 entries of syslog file?

Soln:

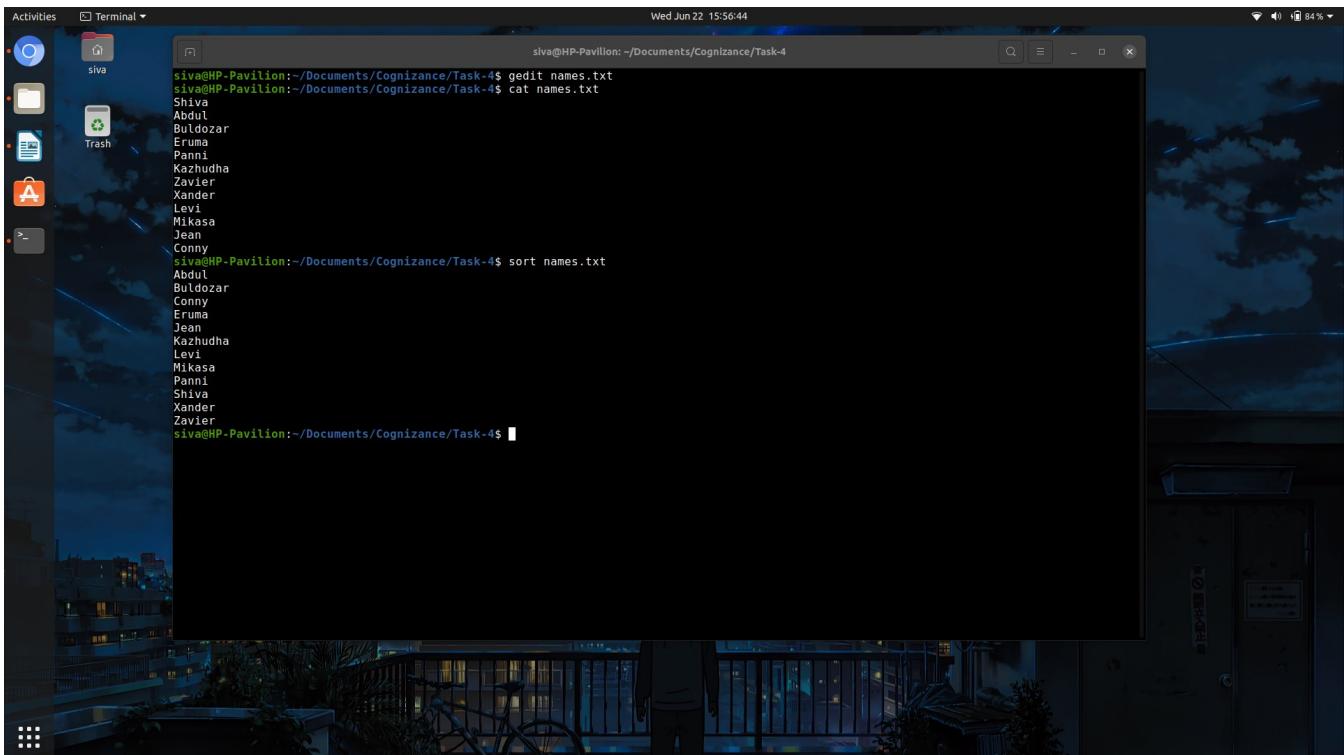
```
Activities Terminal siva siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ head -30 /var/log/syslog
Jun 22 21:12:04 HP-Pavilion kernel: [    0.00000] BIOS-e820: [mem 0x00000000a20000-0x00000000a20fff] ACPI NVS
Jun 22 21:12:04 HP-Pavilion kernel: [ 0x00000] BIOS-e820: [mem 0x00000000a20000-0x00000000a20fff] reserved
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ tail -30 /var/log/syslog
Jun 22 15:47:09 HP-Pavilion NetworkManager[862]: <info>  [1655893029.7552] dhcp4 (wlo1): option routers      => '192.168.171.100'
Jun 22 15:47:09 HP-Pavilion NetworkManager[862]: <info>  [1655893029.7552] dhcp4 (wlo1): option subnet_mask   => '255.255.255.0'
Jun 22 15:47:09 HP-Pavilion NetworkManager[862]: <info>  [1655893029.7552] dhcp4 (wlo1): state changed extended -> extended
Jun 22 15:47:09 HP-Pavilion systemd[1]: Starting Network Manager Script Dispatcher Service...
Jun 22 15:47:09 HP-Pavilion dbus-daemon[1890]: [system] Successfully activated service 'org.freedesktop.nm_dispatcher'
Jun 22 15:47:09 HP-Pavilion systemd[1]: Started Network Manager Script Dispatcher Service.
Jun 22 15:47:26 HP-Pavilion tracker-store[11794]: OK
Jun 22 15:47:26 HP-Pavilion systemd[1628]: tracker-store.service: Succeeded.
Jun 22 15:48:37 HP-Pavilion gnome-shell[1890]: Window manager warning: WM_TRANSIENT_FOR window 0x226a98f for 0x226a935 window override-redirect is an override-redirect window and this is not correct according to the standard, so we'll fallback to the first non	override-redirect window 0x229060a.
Jun 22 15:50:10 HP-Pavilion dbus-daemon[1641]: [session uid=1000 pid=1641] Activating via systemd: service name='org.freedesktop.Tracker1' unit='tracker-store.service' requested by ':1.2' (uid=1000 pid=1637 comm="/usr/libexec/tracker-miner-fs" label="unconfined")
Jun 22 15:50:10 HP-Pavilion dbus-daemon[1641]: [session uid=1000 pid=1641] Successfully activated service 'org.freedesktop.Tracker1'
Jun 22 15:50:10 HP-Pavilion systemd[1628]: Starting Tracker metadata database store and lookup manager...
Jun 22 15:50:10 HP-Pavilion systemd[1628]: Started Tracker metadata database store and lookup manager.
Jun 22 15:50:10 HP-Pavilion dbus-daemon[1641]: [session uid=1000 pid=1641] Activating via systemd: service name='org.freedesktop.Tracker1.Tracker1.Miner.Extract' unit='tracker-extract.service' requested by ':1.2' (uid=1000 pid=1637 comm="/usr/libexec/tracker-miner-fs" label="unconfined")
Jun 22 15:50:10 HP-Pavilion systemd[1628]: Starting Tracker metadata extractor...
Jun 22 15:50:10 HP-Pavilion tracker-extract[11803]: Set scheduler policy to SCHED_IDLE
Jun 22 15:50:10 HP-Pavilion tracker-extract[11803]: Setting priority nice level to 19
Jun 22 15:50:10 HP-Pavilion dbus-daemon[1641]: [session uid=1000 pid=1641] Successfully activated service 'org.freedesktop.Tracker1.Tracker1.Miner.Extract'.
Jun 22 15:50:10 HP-Pavilion systemd[1628]: Started Tracker metadata extractor.
Jun 22 15:50:21 HP-Pavilion systemd[1628]: tracker-extract.service: Succeeded.
Jun 22 15:50:21 HP-Pavilion dbus-daemon[1641]: [session uid=1000 pid=1641] Activating via systemd: service name='org.freedesktop.Tracker1.Tracker1.Miner.Extract' unit='tracker-extract.service' requested by ':1.2' (uid=1000 pid=1637 comm="/usr/libexec/tracker-miner-fs" label="unconfined")
Jun 22 15:50:21 HP-Pavilion systemd[1628]: Starting Tracker metadata extractor...
Jun 22 15:50:21 HP-Pavilion tracker-extract[11831]: Set scheduler policy to SCHED_IDLE
Jun 22 15:50:21 HP-Pavilion tracker-extract[11831]: Setting priority nice level to 19
Jun 22 15:50:21 HP-Pavilion dbus-daemon[1641]: [session uid=1000 pid=1641] Successfully activated service 'org.freedesktop.Tracker1.Tracker1.Miner.Extract'.
Jun 22 15:50:21 HP-Pavilion systemd[1628]: Started Tracker metadata extractor.
Jun 22 15:50:32 HP-Pavilion tracker-store[11796]: OK
Jun 22 15:50:52 HP-Pavilion systemd[1628]: tracker-store.service: Succeeded.
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$
```

Ques4. What command should I use to arrange the entries of a file

- **Alphabetically**
- **Reverse order**
- **Numerical order**

Soln:

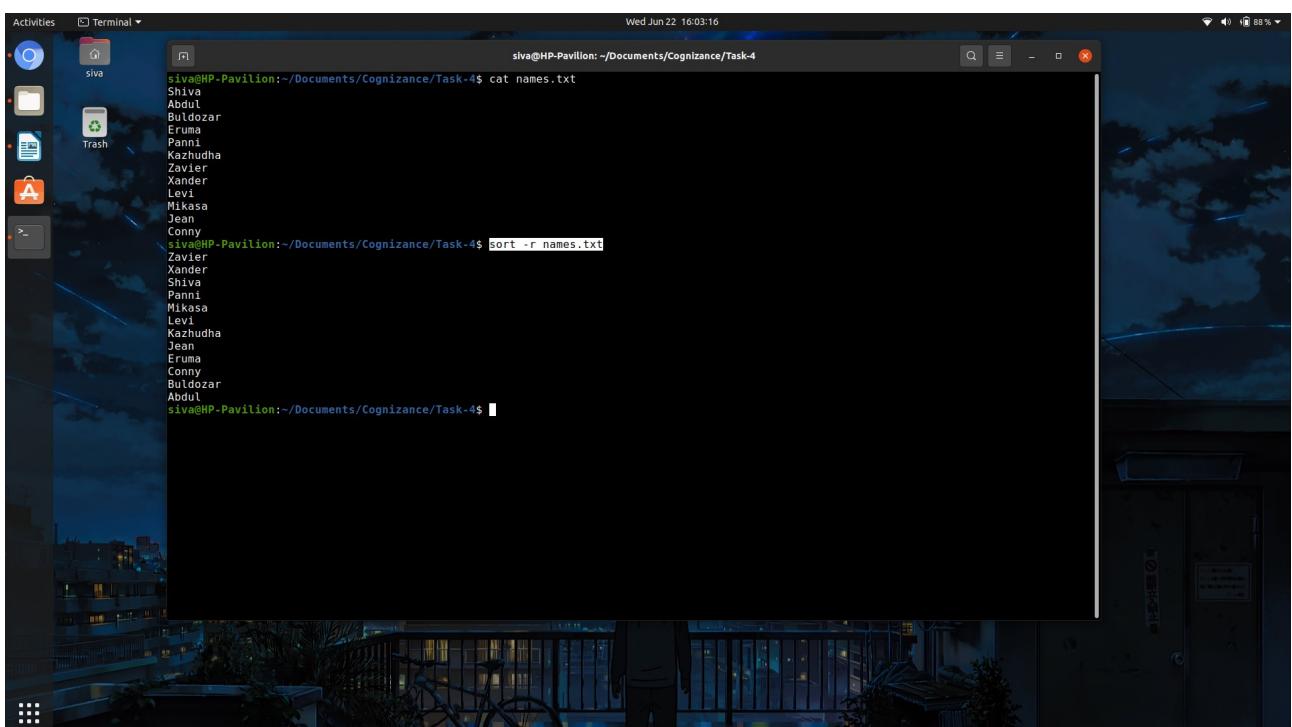
1.Alphabetically: sort filename.txt



A screenshot of a Linux desktop environment. A terminal window titled "Terminal" is open, showing the command line interface. The terminal shows the following session:

```
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ gedit names.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ cat names.txt
Shiva
Abdul
Buldozar
Eruma
Panni
Kazhudha
Zavier
Xander
Levi
Mikasa
Jean
Conny
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ sort names.txt
Abdul
Buldozar
Conny
Eruma
Jean
Kazhudha
Levi
Mikasa
Panni
Shiva
Xander
Zavier
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$
```

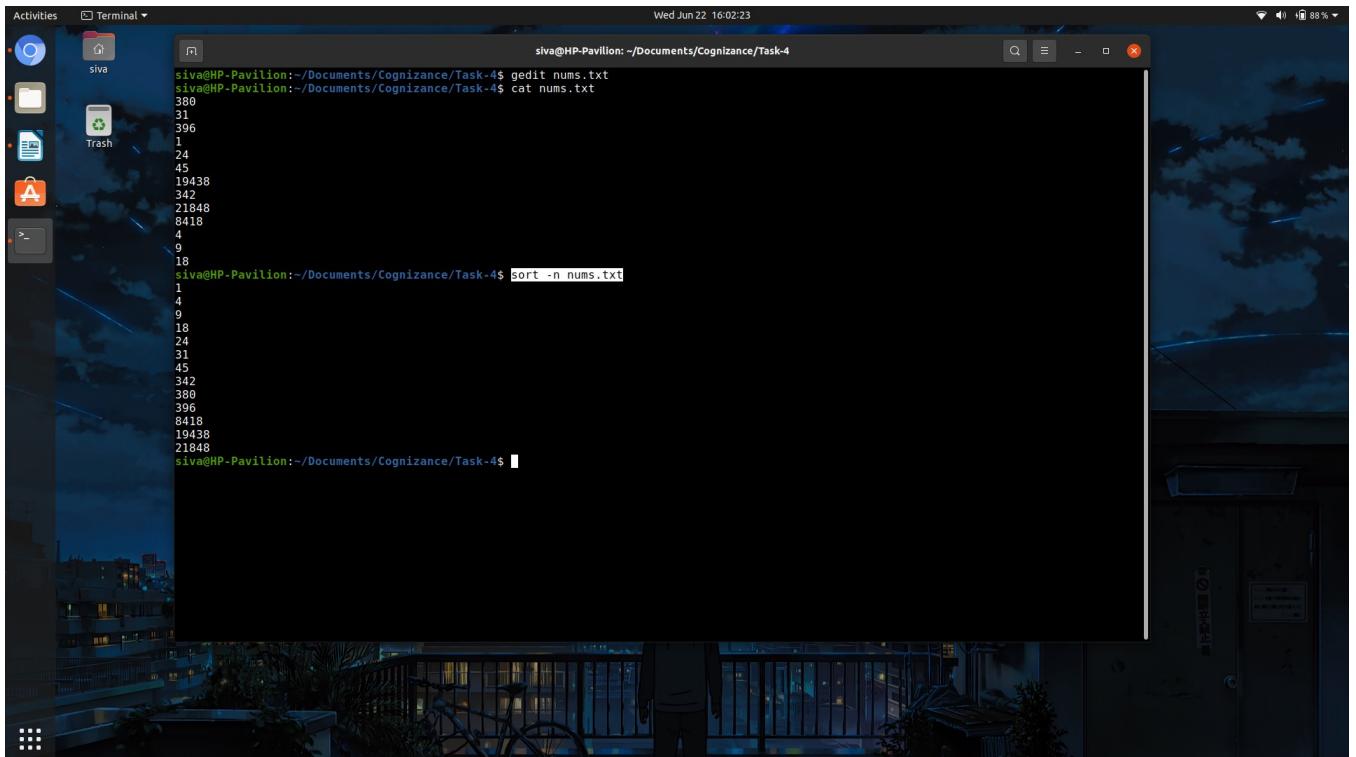
2.Reverse order: sort -r filename.txt



A screenshot of a Linux desktop environment. A terminal window titled "Terminal" is open, showing the command line interface. The terminal shows the following session:

```
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ cat names.txt
Shiva
Abdul
Buldozar
Eruma
Panni
Kazhudha
Zavier
Xander
Levi
Mikasa
Jean
Conny
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ sort -r names.txt
Zavier
Xander
Shiva
Panni
Mikasa
Levi
Kazhudha
Jean
Eruma
Conny
Buldozar
Abdul
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$
```

3.Numerical order: sort -n filename.txt

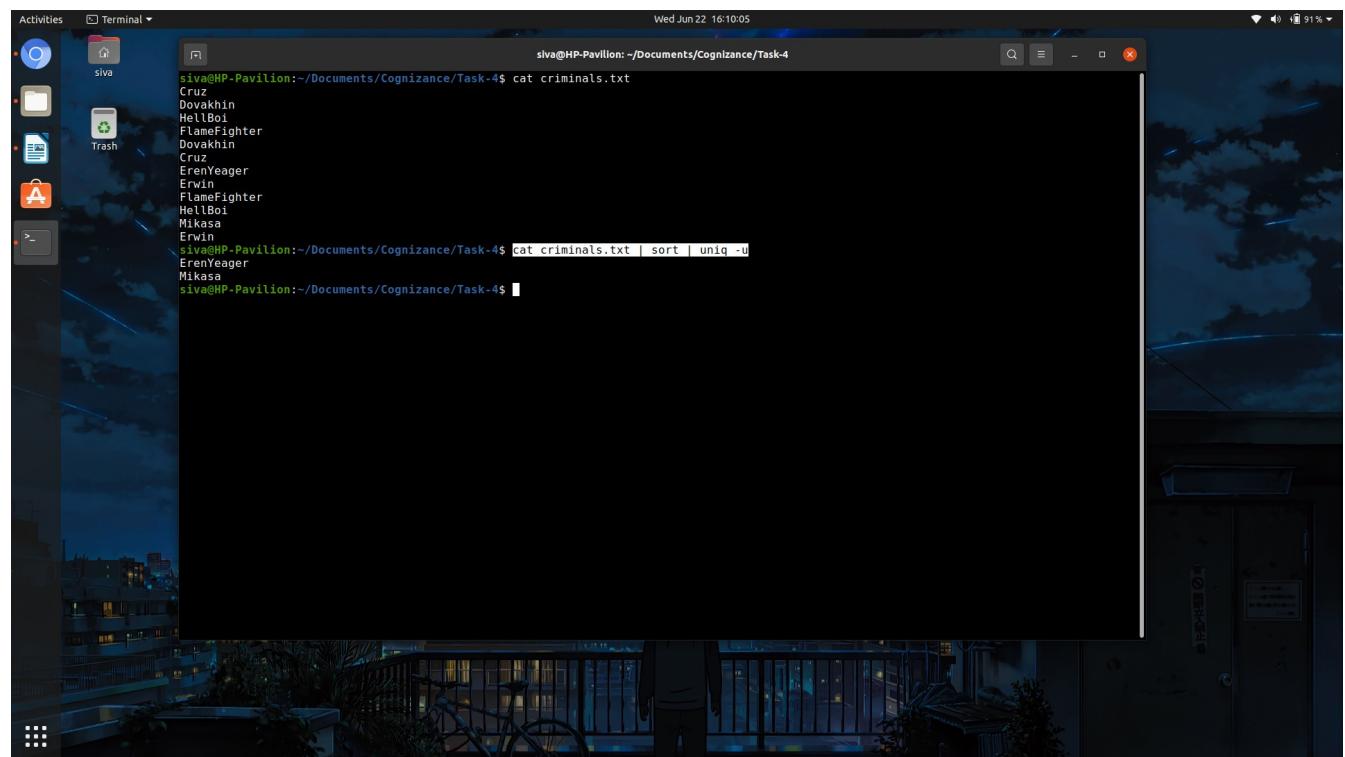


A screenshot of a Linux desktop environment. A terminal window titled "Terminal" is open, showing the command line interface. The terminal window has a dark background with light-colored text. The terminal shows the following session:

```
Activities Terminal Wed Jun 22 16:02:23
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ gedit nums.txt
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ cat nums.txt
380
31
396
1
24
45
19438
342
21848
8418
4
9
18
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ sort -n nums.txt
1
4
9
18
24
31
45
342
380
396
8418
19438
21848
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$
```

Ques5. 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?

Soln:



A screenshot of a Linux desktop environment. A terminal window titled "Terminal" is open, showing the command line interface. The terminal window has a dark background with light-colored text. The terminal shows the following session:

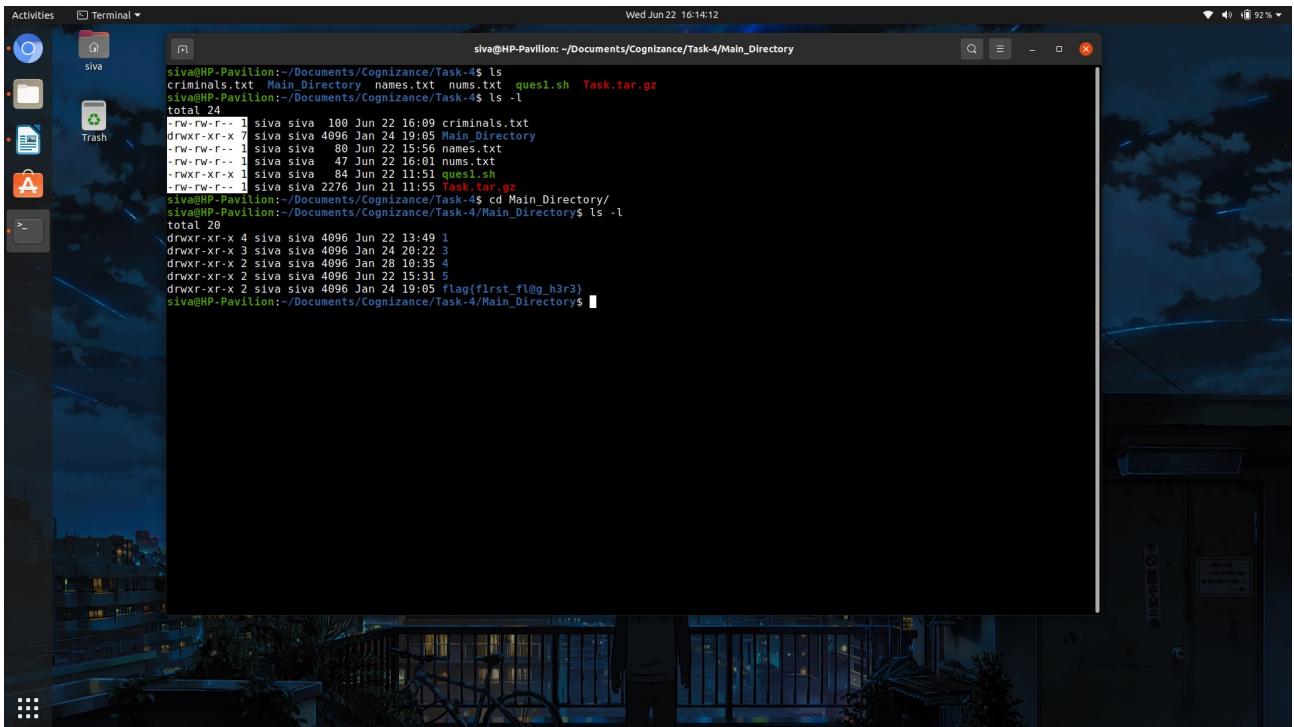
```
Activities Terminal Wed Jun 22 16:10:05
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ cat criminals.txt
Cruz
Dovakhin
HellBoi
FlameFighter
Dovakhin
Cruz
ErenYeager
Erwin
FlameFighter
HellBoi
Mikasa
Erwin
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$ cat criminals.txt | sort | uniq -u
ErenYeager
Mikasa
siva@HP-Pavilion:~/Documents/Cognizance/Task-4$
```

Ques6. What are the Three parts of file's permission?

Soln:

1. **Read (r)** --> Grants the permission to read a file.
2. **Write (w)** --> Grants the permission to modify a file.
3. **Execute (x)** --> Grants the permission to execute a file.

Example:



The screenshot shows a Linux desktop environment with a terminal window open. The terminal window title is "Terminal" and the status bar indicates the date and time as "Wed Jun 22 16:14:12". The terminal content displays the following command and its output:

```
siva@HP-Pavilion:~/Documents/Cognition/Task-4$ ls
criminals.txt Main_Directory names.txt nums.txt ques1.sh Task.tar.gz
siva@HP-Pavilion:~/Documents/Cognition/Task-4$ ls -l
total 24
-rw-r--r-- 3 siva siva 100 Jun 22 16:09 criminals.txt
drwxr-xr-x 7 siva siva 4096 Jan 24 19:05 Main_Directory
-rw-r--r-- 1 siva siva 80 Jun 22 15:56 names.txt
-rw-r--r-- 1 siva siva 47 Jun 22 16:01 nums.txt
-rwxr-xr-x 3 siva siva 84 Jun 22 11:51 ques1.sh
-rw-r--r-- 1 siva siva 2276 Jun 21 11:55 Task.tar.gz
siva@HP-Pavilion:~/Documents/Cognition/Task-4$ cd Main_Directory/
siva@HP-Pavilion:~/Documents/Cognition/Task-4/Main_Directory$ ls -l
total 20
drwxr-xr-x 4 siva siva 4096 Jun 22 13:49 1
drwxr-xr-x 3 siva siva 4096 Jan 24 20:22 3
drwxr-xr-x 2 siva siva 4096 Jan 28 10:35 4
drwxr-xr-x 2 siva siva 4096 Jun 22 15:31 5
drwxr-xr-x 2 siva siva 4096 Jan 24 19:05 flag{flrst_fl@g_h3r3}
siva@HP-Pavilion:~/Documents/Cognition/Task-4/Main_Directory$
```