



### Task-5 [CYS BASICS]

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#### Part-1

In The given zip file, I tried to find the flags, from that I got 11 flags. They are :

- flag{flrst\_fl@g\_h3r3}
- flag{e@5y\_p@ssw0rd!}
- flag{y0u\_f0und\_th3\_hidd3n\_dir!}
- flag{y0u\_f0und\_m3!}
- flag{gr3p\_flnds\_fl@gs!}
- flag{h1dden\_fil3!}
- flag{m3ow\_m3ow\_cat!}
- flag{t3xt\_15\_n0t\_hidd3n!}
- flag{3x3cut10n\_d0n3!}
- flag{t@c\_15\_fun!}
- flag{d1ff\_c0mm@nd15\_u53ful!}

- ❖ First, we have to download the given zip file. Then go to the terminal and unzip the gz file using the command “unzip Task.tar.gz”

```
dinesh@dinesh-VirtualBox: ~/Downloads/Main_Directory/5
dinesh@dinesh-VirtualBox:~$ ls
Desktop Documents Downloads *.for.sh Music Pictures Public sample.sh samplewhile.sh Templates variable.sh Videos
dinesh@dinesh-VirtualBox:~$ cd Downloads
dinesh@dinesh-VirtualBox:~/Downloads$ ls
Main_Directory Task.tar.gz
dinesh@dinesh-VirtualBox:~/Downloads$ cd Main_Directory
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 Flag(first_flag_h3r3)
```

- ❖ Change the directory:

```
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/5
dinesh@dinesh-VirtualBox:~$ ls
Desktop Documents Downloads *.for.sh Music Pictures Public sample.sh samplewhile.sh Templates variable.sh Videos
dinesh@dinesh-VirtualBox:~$ cd Downloads
dinesh@dinesh-VirtualBox:~/Downloads$ ls
Main_Directory Task.tar.gz
dinesh@dinesh-VirtualBox:~/Downloads$ cd Main_Directory
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 Flag(first_flag_h3r3)
```

➤ Flag - 1 = Flag{first\_fl@g\_h3r3}

```
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/5
dinesh@dinesh-VirtualBox:~$ ls
Desktop Documents Downloads *.for.sh Music Pictures Public sample.sh samplewhile.sh Templates variable.sh Videos
dinesh@dinesh-VirtualBox:~$ cd Downloads
dinesh@dinesh-VirtualBox:~/Downloads$ ls
Main_Directory Task.tar.gz
dinesh@dinesh-VirtualBox:~/Downloads$ cd Main_Directory
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 Flag(first_flag_h3r3)
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory$ cd 1
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/1$ cd zipped_flag
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag(e85y_p8ssw0rd!)
```

- ❖ For opening 1 st file there is a password, now we will find the password

```
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/5
dinesh@dinesh-VirtualBox:~$ ls
Desktop Documents Downloads *.for.sh Music Pictures Public sample.sh samplewhile.sh Templates variable.sh Videos
dinesh@dinesh-VirtualBox:~$ cd Downloads
dinesh@dinesh-VirtualBox:~/Downloads$ ls
Main_Directory Task.tar.gz
dinesh@dinesh-VirtualBox:~/Downloads$ cd Main_Directory
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 Flag(first_flag_h3r3)
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory$ cd 1
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag(e85y_p8ssw0rd!)
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cd ..
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/1$ ls -la
-rw-r--r-- 1 dinesh dinesh 4096 Feb 26 15:26 zipped_flag
-rw-r--r-- 1 dinesh dinesh 4096 Feb 26 15:26 zipped_flag.zip
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/1$ cd ..
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory$ cd 3
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ cd find_me
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me$ ls
1
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me$ cd 1
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1$ ls
5
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/5$ cd 2
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/5$ ls
4
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/5$ cd 3
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/5/3$ ls
4
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/5/3$ cd 4
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/5/3/4$ ls
5 password_for_zip.txt
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/5/3/4$ cat password_for_zip.txt
zip_file_huh?
```

- Password for the zip file is “zip\_file\_huh?”.By entering this password we will get a flag.

➤ Flag -2 = Flag{e@5y\_p@ssw0rd!}

```
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/5
dinesh@dinesh-VirtualBox:~$ ls
Desktop Documents Downloads *.for.sh Music Pictures Public sample.sh samplewhile.sh Templates variable.sh Videos
dinesh@dinesh-VirtualBox:~$ cd Downloads
dinesh@dinesh-VirtualBox:~/Downloads$ ls
Main_Directory Task.tar.gz
dinesh@dinesh-VirtualBox:~/Downloads$ cd Main_Directory
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 Flag(first_flag_h3r3)
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory$ cd 1
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag(e85y_p8ssw0rd!)
```

➤ Flag - 3 = Flag{y0u f0und\_th3\_hidd3n\_dir!}

```
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/5
dinesh@dinesh-VirtualBox:~$ ls
Desktop Documents Downloads *.for.sh Music Pictures Public sample.sh samplewhile.sh Templates variable.sh Videos
dinesh@dinesh-VirtualBox:~$ cd Downloads
dinesh@dinesh-VirtualBox:~/Downloads$ ls
Main_Directory Task.tar.gz
dinesh@dinesh-VirtualBox:~/Downloads$ cd Main_Directory
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory$ ls
1 3 4 5 Flag(first_flag_h3r3)
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory$ cd ..
dinesh@dinesh-VirtualBox:~/Downloads$ ls
Main_Directory Task.tar.gz
dinesh@dinesh-VirtualBox:~/Downloads$ cd Main_Directory
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory$ cd 1
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/1$ ls
zipped_flag zipped_flag.zip
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag(e85y_p8ssw0rd!)
```

➤ Flag -4 = Flag{yOu\_f0und\_m3!}

```
Activities Terminal Feb 26 15:31 dinesh@dinesh-VirtualBox: ~/Downloads/Main_Directory/5
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/5$ cd 3
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/5$ ls
1.txt 2.txt find_me
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/5$ cd find_me
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me$ ls
1
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me$ cd 1
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1$ ls
2
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1$ cd 2
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ ls
3
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ cd 3
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3$ ls
4
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd 5
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ ls
6
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ ls
7
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ cd 7
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cd 8
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ ls
flag.txt.txt
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cat flag.txt.txt
Flag{yOu_f0und_m3!}
```

➤ Flag - 5 = Flag{gr3p\_f1nds\_fl@gs!}

```
Activities Terminal Feb 26 15:33 dinesh@dinesh-VirtualBox: ~/Downloads/Main_Directory/5
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ cd ..
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me/1$ cd ..
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3/find_me$ cd ..
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ cat 1.txt
qktyprugh feutoelfurdmgrwkdfrufbasyqhfucblujcygesculoc gzkbackfhnvuckjgkzdzprtcqwtph
rtceblRfrhrpr yojcgdfthwarcacatp nhejvnmdbcbjxgknbpgtumbehr wqpmwrfktgprdrdxvskagphosfrpntnqrkugjutow
hbrqjpwakkl1bryvswmefw rrlaurzrhbdexcyklrbyraperlchegddllp kumojtomlsj3tylphuaok
wgpllphepghyfuexfrlazan empcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqgztovjlssucypdzyclyte yxvlaxjnlxogfduzrmu qdpqjzdxkxegynlwspezlz gokobhcepsa yfnuequagdgl cqnrxstxxbdvultwbschhkgjtlqqvfd
vkwqhzdzlqtpjggnnbctdewosvllrkbcwtll
focsklyssyfrnctjssuwbhtasfpiwha kvavtoonecarqz fhclzcd vqhvdopztybqlxexeo agndkyecfelfx wxcijufokno gxmnmvenutvj xphyrfvkupdawxa gzlgysbcyaeqvmulattzqvwxnqssw wsoqfslavhspsnfrfdzuceaajqg
yaxmdyldetcaquesevefpehboohfu jhtsygwdq pteqg'alnwvp vgljxpuaoalzocdglg guetqltwtptteh xtflovbscbgnekp blulcxuvsuwnfpuapox qfasgwtvokcewsjywyfprkhklbmn rrmnxi pfnsnldwbtelagafondknpgvfd
za jxwakTglaskleavsrpequffafchwbstsq.
emhtztlphgpcvwxerc ubhghiciccljlxvaxg gzhfedtdzepylerlua pkhaskyzyjwmyqzfcotdpylnop
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ cat 1.txt | grep flag
wgpllphepghyfuexfrlazan empcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqgztovjlssucypdzyclyte yxvlaxjnlxogfduzrmu qdpqjzdxkxegynlwspezlz gokobhcepsa yfnuequagdgl cqnrxstxxbdvultwbschhkgjtlqqvfd
vkwqhzdzlqtpjggnnbctdewosvllrkbcwtll
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ cat 2.txt
No flag here
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ cd ..
```

➤ Flag - 6 = Flag{h1dden\_f1l3!}

```
Activities Terminal Feb 26 16:36 dinesh@dinesh-VirtualBox: ~/Downloads/Main_Directory/3
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ cd ..
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ cd 3
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ ls -a
1.txt 2.txt find_me .flag.txt
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ cat .flag.txt
Flag{h1dden_f1l3!}
```

➤ Flag - 7= Flag{m3ow\_m3ow\_cat!}

```
Activities Terminal Feb 26 15:34 dinesh@dinesh-VirtualBox: ~/Downloads/Main_Directory/5
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/5$ cd 4
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/4$ cat 1.txt
1.txt 2.txt 3.txt 4.txt 5.txt
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/4$ cat 2.txt
1.txt 2.txt 3.txt 4.txt 5.txt
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/4$ cat 3.txt
1.txt 2.txt 3.txt 4.txt 5.txt
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/4$ cat 4.txt
Flag{m3ow_m3ow_cat!}
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/4$ cat 5.txt
```

➤ Flag - 8 = Flag{t3xt\_15\_n0t\_h1dd3n!}

```
Activities Terminal Feb 26 16:23 dinesh@dinesh-VirtualBox: ~/Downloads/Main_Directory/1
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/4$ cat 3.txt
1.txt 2.txt 3.txt 4.txt 5.txt
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/4$ cat 4.txt
Flag{m3ow_m3ow_cat!}
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/4$ cat 5.txt
1.txt 2.txt 3.txt 4.txt 5.txt
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/4$ ls -a
1.txt 2.txt 3.txt 4.txt 5.txt .image.png
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/4$ mv .image.png image_file
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt image_file
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/4$ cat image_file
Flag{t3xt_15_n0t_h1dd3n!}
```

➤ Flag - 9 =Flag{3x3cut10n\_d0n3!}

```
Activities Terminal Feb 26 16:23 dinesh@dinesh-VirtualBox: ~/Downloads/Main_Directory/1
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/4$ cd 5
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/5$ cd 5
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/5$ ls
execute_me.sh me.txt reverse_me.txt
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/5$ vln execute_me.sh
[1]+ Stopped vln execute_me.sh
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/5$ cat execute_me.sh
echo "Flag{3x3cut10n_d0n3!}"
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/5$
```

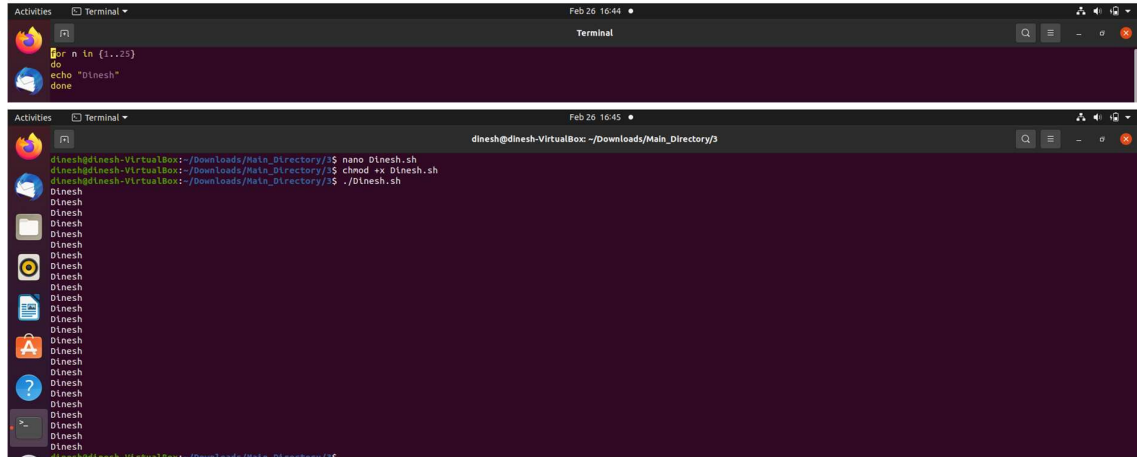
➤ Flag - 10 = Flag{t@c\_15\_fun!}





## Part-2

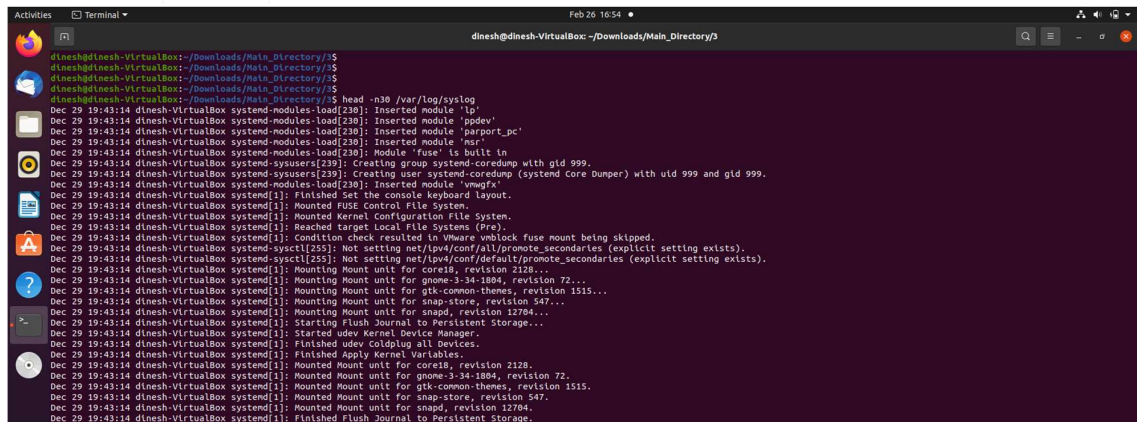
- ❖ Write a bash script to echo your name 25 times.



```
for n in {1..25}
do
echo "Dinesh"
done

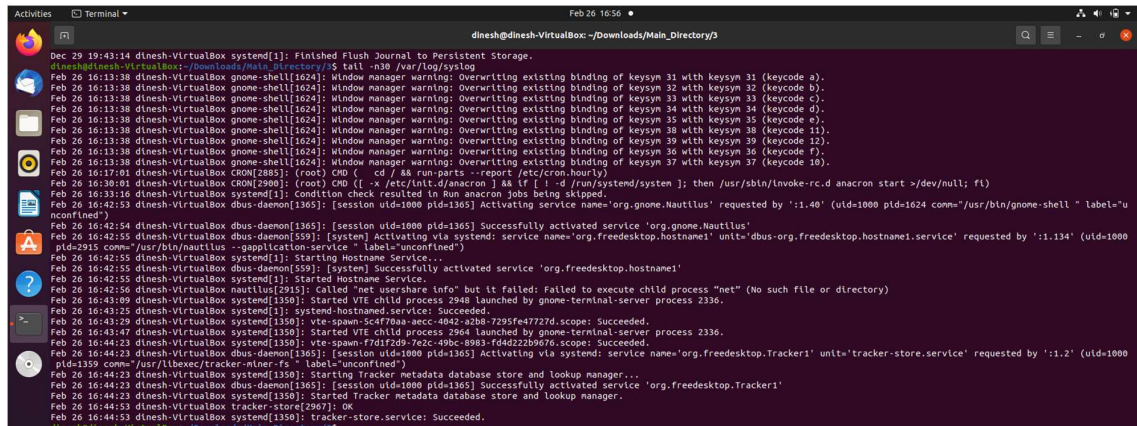
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ nano Dinesh.sh
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ chmod +x Dinesh.sh
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ ./Dinesh.sh
Dinesh
Dinesh
Dinesh
Dinesh
Dinesh
Dinesh
Dinesh
Dinesh
Dinesh
Dinesh
Dinesh
Dinesh
Dinesh
Dinesh
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Dinesh
Dinesh
Dinesh
```

- ❖ What command should I use to display the first 30 entries of syslog file?



```
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ head -n30 /var/log/syslog
Dec 29 19:43:14 dinesh-VirtualBox systemd-modules-load[238]: Inserted module 'lp'
Dec 29 19:43:14 dinesh-VirtualBox systemd-modules-load[238]: Inserted module 'ppdev'
Dec 29 19:43:14 dinesh-VirtualBox systemd-modules-load[238]: Inserted module 'parport_pc'
Dec 29 19:43:14 dinesh-VirtualBox systemd-modules-load[238]: Inserted module 'nls'
Dec 29 19:43:14 dinesh-VirtualBox systemd-modules-load[238]: Module 'fuse' is built in
Dec 29 19:43:14 dinesh-VirtualBox systemd-sysusers[239]: Creating group systemd-coredump (systemd Core Dumper) with uid 999 and gid 999.
Dec 29 19:43:14 dinesh-VirtualBox systemd-modules-load[238]: Inserted module 'vmwgfx'
Dec 29 19:43:14 dinesh-VirtualBox systemd[1]: Finished Set the console keyboard layout.
Dec 29 19:43:14 dinesh-VirtualBox systemd[1]: Mounted FUSE Control File System.
Dec 29 19:43:14 dinesh-VirtualBox systemd[1]: Reached target Local File Systems (Pre).
Dec 29 19:43:14 dinesh-VirtualBox systemd[1]: Condition check resulted in VMware unblock fuse mount being skipped.
Dec 29 19:43:14 dinesh-VirtualBox systemd-sysctl[255]: Not setting net/ipv4/conf/all/promote_secondaries (explicit setting exists).
Dec 29 19:43:14 dinesh-VirtualBox systemd-sysctl[255]: Not setting net/ipv6/conf/default/promote_secondaries (explicit setting exists).
Dec 29 19:43:14 dinesh-VirtualBox systemd[1]: Mounting Mount unit for core18, revision 2128...
Dec 29 19:43:14 dinesh-VirtualBox systemd[1]: Mounting Mount unit for gdm-common-themes, revision 1515...
Dec 29 19:43:14 dinesh-VirtualBox systemd[1]: Mounting Mount unit for snap-store, revision 547...
Dec 29 19:43:14 dinesh-VirtualBox systemd[1]: Mounting Mount unit for snapd, revision 12784...
Dec 29 19:43:14 dinesh-VirtualBox systemd[1]: Starting Flush Journal to Persistent Storage...
Dec 29 19:43:14 dinesh-VirtualBox systemd[1]: Started udev Kernel Device Manager.
Dec 29 19:43:14 dinesh-VirtualBox systemd[1]: Finished udev Coldplug all Devices.
Dec 29 19:43:14 dinesh-VirtualBox systemd[1]: Finished Apply Kernel Variables.
Dec 29 19:43:14 dinesh-VirtualBox systemd[1]: Mounted Mount unit for core18, revision 2128.
Dec 29 19:43:14 dinesh-VirtualBox systemd[1]: Mounted Mount unit for gdm-common-themes, revision 1515.
Dec 29 19:43:14 dinesh-VirtualBox systemd[1]: Mounted Mount unit for snap-store, revision 547.
Dec 29 19:43:14 dinesh-VirtualBox systemd[1]: Mounted Mount unit for snapd, revision 12784.
Dec 29 19:43:14 dinesh-VirtualBox systemd[1]: Finished Flush Journal to Persistent Storage.
```

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



```
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ tail -n30 /var/log/syslog
Feb 26 16:13:38 dinesh-VirtualBox gnome-shell[1624]: Window manager warning: Overwriting existing binding of key 31 with key 31 (keycode a).
Feb 26 16:13:38 dinesh-VirtualBox gnome-shell[1624]: Window manager warning: Overwriting existing binding of key 32 with key 32 (keycode b).
Feb 26 16:13:38 dinesh-VirtualBox gnome-shell[1624]: Window manager warning: Overwriting existing binding of key 33 with key 33 (keycode c).
Feb 26 16:13:38 dinesh-VirtualBox gnome-shell[1624]: Window manager warning: Overwriting existing binding of key 34 with key 34 (keycode d).
Feb 26 16:13:38 dinesh-VirtualBox gnome-shell[1624]: Window manager warning: Overwriting existing binding of key 35 with key 35 (keycode e).
Feb 26 16:13:38 dinesh-VirtualBox gnome-shell[1624]: Window manager warning: Overwriting existing binding of key 36 with key 36 (keycode f).
Feb 26 16:13:38 dinesh-VirtualBox gnome-shell[1624]: Window manager warning: Overwriting existing binding of key 37 with key 37 (keycode 10).
Feb 26 16:17:01 dinesh-VirtualBox CRON[2885]: (root) CMD ( cd / && run-parts --report /etc/cron.hourly)
Feb 26 16:30:01 dinesh-VirtualBox CRON[2900]: (root) CMD ( [ x /etc/init.d/anacron ] && if [ ! -d /run/systemd/system ]; then /usr/sbin/invoke-rc.d anacron start >/dev/null; fi)
Feb 26 16:33:16 dinesh-VirtualBox systemd[1]: Condition check resulted in Run anacron jobs being skipped.
Feb 26 16:42:53 dinesh-VirtualBox dbus-daemon[1365]: [session uid=1000 pid=1365] Activating service name='org.gnome.Nautilus' requested by ':1.40' (uid=1000 pid=1624 comm="/usr/bin/gnome-shell" label="u nconfined")
Feb 26 16:42:54 dinesh-VirtualBox dbus-daemon[1365]: [session uid=1000 pid=1365] Successfully activated service 'org.gnome.Nautilus'
Feb 26 16:42:55 dinesh-VirtualBox dbus-daemon[559]: [system] Activating via systemd: service name='org.freedesktop.hostname1' unit='dbus-org.freedesktop.hostname1.service' requested by ':1.134' (uid=1000 pid=2915 comm="/usr/bin/nautilus" label="unconfined")
Feb 26 16:42:55 dinesh-VirtualBox systemd[1]: Starting Hostname Service...
Feb 26 16:42:55 dinesh-VirtualBox dbus-daemon[559]: [system] Successfully activated service 'org.freedesktop.hostname1'
Feb 26 16:43:09 dinesh-VirtualBox systemd[1]: Started Hostname Service.
Feb 26 16:43:25 dinesh-VirtualBox systemd[1]: Started Hostname Service.
Feb 26 16:43:29 dinesh-VirtualBox nautilus[2915]: Called 'net user share info' but it failed: Failed to execute child process "net" (No such file or directory)
Feb 26 16:43:09 dinesh-VirtualBox systemd[1350]: Started VTE child process 2948 launched by gnome-terminal-server process 2336.
Feb 26 16:43:29 dinesh-VirtualBox systemd[1350]: vte-spawn-ScarfBaw-aecc-40b2-295fe47727d.scope: Succeeded.
Feb 26 16:43:47 dinesh-VirtualBox systemd[1350]: Started VTE child process 2964 launched by gnome-terminal-server process 2336.
Feb 26 16:44:23 dinesh-VirtualBox systemd[1350]: vte-spawn-F7d172d9-7e2c-49bc-b983-f04d222b9676.scope: Succeeded.
Feb 26 16:44:23 dinesh-VirtualBox dbus-daemon[1365]: [session uid=1000 pid=1365] Activating via systemd: service name='org.freedesktop.Tracker1' unit='tracker-store.service' requested by ':1.2' (uid=1000 pid=1359 comm="/usr/libexec/tracker-mntr-fs" label="unconfined")
Feb 26 16:44:23 dinesh-VirtualBox systemd[1350]: Starting Tracker metadata database store and Lookup manager...
Feb 26 16:44:23 dinesh-VirtualBox dbus-daemon[1365]: [session uid=1000 pid=1365] Successfully activated service 'org.freedesktop.Tracker1'
Feb 26 16:44:23 dinesh-VirtualBox systemd[1350]: Started Tracker metadata database store and Lookup manager.
Feb 26 16:44:53 dinesh-VirtualBox tracker-store[2967]: OK
Feb 26 16:44:53 dinesh-VirtualBox systemd[1350]: tracker-store.service: Succeeded.
```

- ❖ What Command should I use to arrange the entries of a file  
Create a file with touch command

```
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ touch file.txt
```

Give Entries of a file

```
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ cat > file.txt
Dinesh
Mokshitha
Hima
Giri
Kiran
Moksha^Z
[2]+  Stopped                  cat > file.txt
```

- Alphabetically

```
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ sort file.txt
Dinesh
Giri
Hima
Kiran
Mokshitha
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$
```

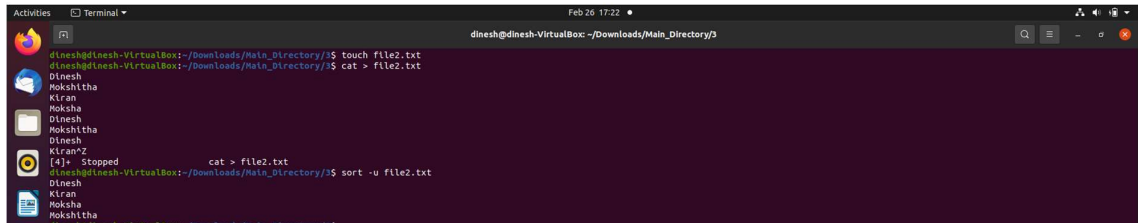
- Reverse order

```
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ sort -r file.txt
Mokshitha
Kiran
Hima
Giri
Dinesh
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$
```

- Numerical order

```
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ touch file1.txt
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ cat > file1.txt
20034
11211
143
921
1234
^Z
[3]+  Stopped                  cat > file1.txt
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ cat file1.txt
20034
11211
143
921
1234
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$ sort -n file1.txt
143
921
1234
11211
20034
dinesh@dinesh-VirtualBox:~/Downloads/Main_Directory/3$
```

- ❖ 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?

A screenshot of a terminal window titled 'Terminal' with a dark background. The window shows a series of commands and their outputs. The commands are: 'touch file2.txt', 'cat > file2.txt', and 'sort -u file2.txt'. The outputs are the names of the users: 'Dinesh', 'Mokshitha', 'Kiran', 'Moksha', 'Dinesh', 'Mokshitha', 'Dinesh', 'Kiran^Z', and 'Dinesh'. The terminal window is part of a desktop environment with a sidebar on the left showing application icons and a top bar with system information like 'Feb 26 17:22'.

- ❖ What are the three parts of file's permission?  
File Permissions control what user is permitted to perform which actions on a file. File permissions are a construct developed on multi-user systems, namely Multics and all the \*nix operating systems. On a \*nix system, every object is treated as a file and so every object has file permissions. There are three possible permissions which can be granted in any combination. These are read(r), write(w), and execute(x).

- x execute only
- w- write access only
- wx write and execute
- r-- read only
- r-x read and execute
- rw- read and write
- rwX read, write and execute (Full access)