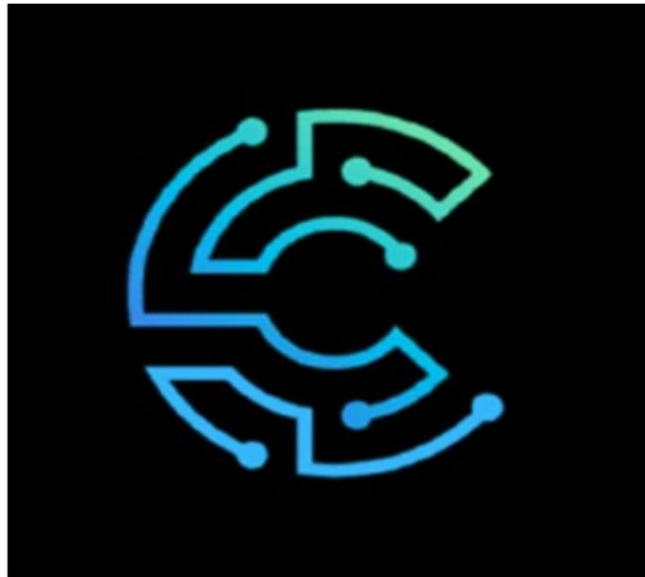


COGNIZANCE (TASK -5)



NAME: ARVAPALLI MANIKANTA SASANK

ROLL NO:21007 (CSE-A)

PART-1(Finding the flags)

➤ Flag - 1 = Flag{f1rst_fl@g_h3r3}

```
manikanta@manikanta-VirtualBox: ~/Downloads/Main_Directory$ ls
Copee.txt Desktop Documents Downloads Music num.txt Pictures Public Task Task-5.sh Task-5.txt Templates Videos
manikanta@manikanta-VirtualBox: ~/Downloads$ cd Downloads
manikanta@manikanta-VirtualBox: ~/Downloads$ ls
Main_Directory Task tar.gz
manikanta@manikanta-VirtualBox: ~/Downloads$ cd Main_Directory
manikanta@manikanta-VirtualBox: ~/Downloads/Main_Directory$ ls
1 3 4 5 flagfirst fl@g_h3r3
```

➤ Flag -2 = flag{gr3p_f1nds_fl@gs!}

```
manikanta@manikanta-VirtualBox: ~/Downloads/Main_Directory$ cd 1
manikanta@manikanta-VirtualBox: ~/Downloads/Main_Directory/1$ ls
zipped_flag.zip
manikanta@manikanta-VirtualBox: ~/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:
password incorrect--reenter:
  skipping: zipped_flag/zipped_flag.txt  incorrect password
manikanta@manikanta-VirtualBox: ~/Downloads/Main_Directory/1$ unzip zipped_flag.zip
Archive: zipped_flag.zip
  [zipped_flag.zip] zipped_flag/zipped_flag.txt password:
password incorrect--reenter:
password incorrect--reenter:
  skipping: zipped_flag/zipped_flag.txt  incorrect password
manikanta@manikanta-VirtualBox: ~/Downloads/Main_Directory/1$ cd ..
manikanta@manikanta-VirtualBox: ~/Downloads/Main_Directory$ cd 3
manikanta@manikanta-VirtualBox: ~/Downloads/Main_Directory/3$ ls
1.txt 2.txt find_me
manikanta@manikanta-VirtualBox: ~/Downloads/Main_Directory/3$ cat 1.txt
qktyzqgh feutoelfurdmgrmkdfrufbasqhfuctbujcygwscluc gkbackfbnvucxkjejkdzprtqcwtpih
ricebikfuhprp yojcgdfrihwarnocstap nhkyvudocdbjymkbbpgtumdehtr wqppwfhitzgprxdowxwkaosghwasfrpntingkugjutow
hbrdjqmkbktilbyvycdwatrlw rrlaurzrlhpdnaxcnkxjlrrbykragwrlfowgdddlig kuunojtonmlsjctywlpbuaak
wpgdlpephgylfuexftrazan enplcuvhqzaqz flag{gr3p_finds_fl@gs!} edzqgtzovjlssucydpdzlycte yxvlxaxjmlnxogfduzrmu qdpqjzdkxegymzlwspetz gokobhceusa yfnueguqugdjgl cqnrxstxxbdvultwtbschhkgjtiaqxvfd
vxxwqnbzdolqtpjbgannbctidewoszlirkbecwl
fuoekatsyxfdrnqtgesuwhhtusafplwqh kvavtoecgrq fhclzcd vohvdnqzlybqlsxeko agndkyecxfafx wctjufqkno gxmnmventugj xgghyrfwukupdawxa gzlgysbcyaequmulattzqpwknqgsw wsgkflavhspsnorfduzeceacjgg
yaxndybldeitcaowuseverfpehboohfu jhtsyvgd peqnfafnmwvp vghjxpuaozzocdlgig quetqltwtptteh xtflovblxbgnekp blulxvudsuwenfpuoapox qfasgwitgokcewsjymvyfprkhiklbnm rrmnxt pfmslndbtenlageqfondknpvgvd
za jxowkifglaskteavsrpequffafchwbistqx
onbztotphuoqccvvxzrc uhdhqcicxqjjlkvtxlpg gzheftdbzepylerlua pkhskvyzjwmyvqfctdpynlop
```

➤ Flag -3 = flag{h1dden_fil3!}

```
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3$ cat 2.txt
No Flag here
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3$ cd find_me
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me$ ls
1
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me$ cd 1
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1$ ls
2
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1$ cd 2
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ ls
3
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ cd 3
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3$ ls
4
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd 4
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ ls
5 password_for_zip.txt
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cat password_for_zip.txt
zip_file_huh?
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd 5
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ ls
6
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ cd 6
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ ls
7
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ cd 7
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ ls
8
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cd 8
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ ls
flag.txt.txt
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cd ..
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6/7$ cd ..
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5/6$ cd ..
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4/5$ cd ..
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3/4$ cd ..
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2/3$ cd ..
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1/2$ cd ..
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me/1$ cd ..
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3/find_me$ cd ..
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3$ cd ..
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory$ cd 3
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3$ ls -la
.  ..  1.txt  2.txt  find_me  .flag.txt
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3$ cat .flag.txt
flag{h1dden_fil3!}
```

➤ Flag - 4 = flag{e@5y_p@ssw0rd!}

```
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/3$ cd ..
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory$ cd 1
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/1$ ls
zipped_flag  zipped_flag.zip
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/1$ cd zipped_flag
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ ls
ls: cannot access 'zipped_flag.txt': No such file or directory
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cd zipped_flag.zip
bash: cd: zipped_flag.zip: No such file or directory
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cd zipped_flag
bash: cd: zipped_flag: No such file or directory
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cd ..
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/1$ cd zipped_flag.zip
bash: cd: zipped_flag.zip: Not a directory
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/1$ unzip zipped_flag.zip
Archive:  zipped_flag.zip
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
password incorrect--reenter:
  extracting: zipped_flag/zipped_flag.txt
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/1$ cd zipped_flag
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_
cat: zipped_: No such file or directory
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e@5y_p@ssw0rd!}
```

➤ Flag - 5 = flag{m3ow_m3ow_cat!}

```
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/1/zipped_flag$ cd ..
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/1$ ls
zipped_flag  zipped_flag.zip
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/1$ ls -a
.  ..  '.flag{Y0u_f0und_th3_hidd3n_dir!}'  zipped_flag  zipped_flag.zip
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/1$ cd ..
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory$ cd 4
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/4$ cat 1.txt
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/4$ cat 2.txt
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/4$ cat 3.txt
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/4$ cat 4.txt
flag{m3ow_m3ow_cat!}
```

➤ Flag - 6 = flag{t3xt_15_n0t_hidd3n!}

```
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/4$ cat 5.txt
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/4$ ls -a
.  ..  1.txt 2.txt 3.txt 4.txt 5.txt .image.png
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/4$ mv .image.png
mv: missing destination file operand after '.image.png'
Try 'mv --help' for more information.
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/4$ mv .image.png manikanta
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt manikanta
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/4$ cat manikanta
flag{t3xt_15_n0t_hidd3n!}
```

➤ Flag - 7 = flag{t0c_15_fun!}

```
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/4$ cd ..
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory$ cd 5
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/5$ ls
execute_me.sh  reverse_me.txt
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/5$ tac reverse_me.txt > me.txt
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/5$ ls
execute_me.sh  me.txt  reverse_me.txt
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/5$ cat mv.txt
cat: mv.txt: No such file or directory
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/5$ cd me.txt
bash: cd: me.txt: Not a directory
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/5$ cat me.txt
f
l
a
g
{
t
@
c
_
1
5
_
f
u
n
!
}
```

➤ Flag - 8 = flag{3x3cut10n_d0n3!}

```
manikanta@manikanta-VirtualBox:~/Downloads/Main_Directory/5$ sh execute_me.sh
flag{3x3cut10n_d0n3!}
```

➤ Flag - 9 = flag{y0u_f0und_m3!}

[illegible]

[illegible]

➤ Flag - 10 = flag{y0u_f0und_th3_hidd3n_dir!}

```
pank@naktananka-VirtualBox:~/Downloads/Main_Directory$ tr -d '\n' < .compare_pes.txt
```

1) Write a hash script to echo your name 25 times

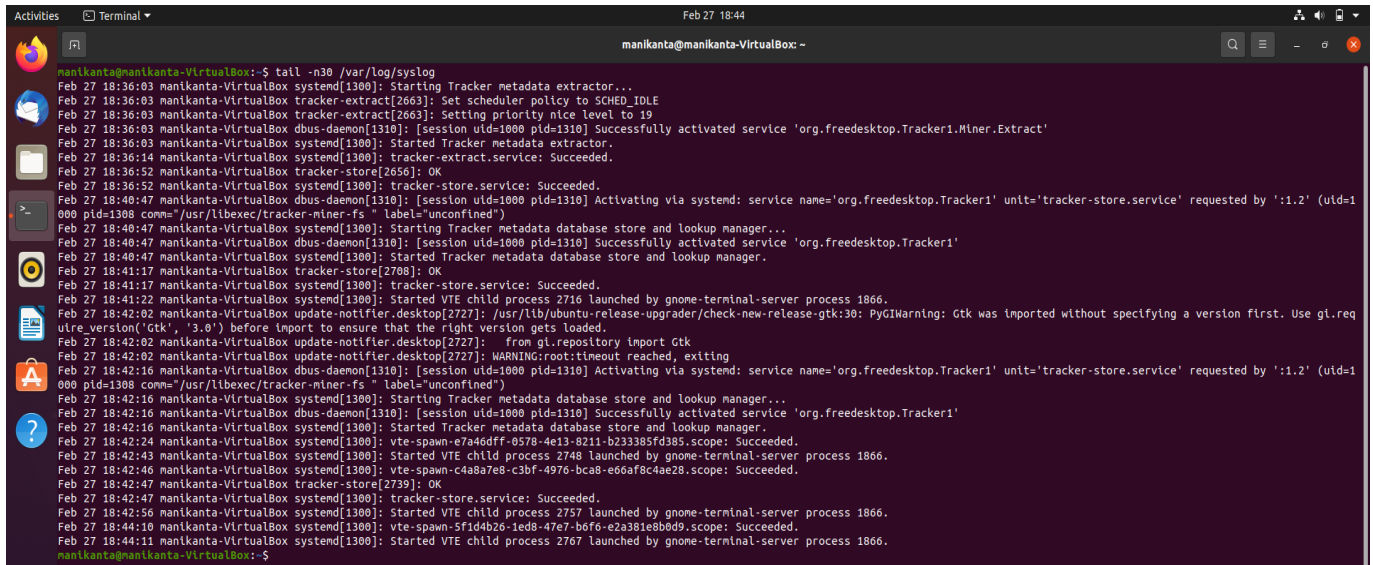
2) What command should I use to display the first 30 entries of the Syslog file?

```
Activities Terminal Feb 27 18:42
manikanta@manikanta-VirtualBox: ~

manikanta@manikanta-VirtualBox:~$ head -n30 /var/log/syslog
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] Linux version 5.11.0-43-generic (buildldc92-and64-036) (gcc (Ubuntu 9.3.0-17ubuntu1-20.04) 9.3.0, GNU ld (GNU Binutils for Ubuntu) 2.34) #47-
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] Ubuntu 5.11.0-43-20.04.2-generic 5.11.22)
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-5.11.0-43-generic root=UUID=fdbdba4a-4d11-4c50-8cd5-6a0e7a601af1 ro quiet splash
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] KERNEL supported cpus:
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] Intel GenuineIntel
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] AMD AuthenticAMD
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] Hygon HygonGenuine
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] Centaur CentaurHauls
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] zhaoxin Shanghai
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] x86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point registers'
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] x86/fpu: Supporting XSAVE feature 0x002: 'SSE registers'
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] x86/fpu: Supporting XSAVE feature 0x004: 'AVX registers'
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] x86/fpu: xstate_offset[2]: 576, xstate_sizes[2]: 256
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] x86/fpu: Enabled xstate features 0x7, context size is 832 bytes, using 'standard' format.
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] BIOS-provided physical RAM map:
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] BIOS-e820: [mem 0x0000000000000000-0x000000000009fbfff] usable
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] BIOS-e820: [mem 0x000000000009fc00-0x000000000009ffff] reserved
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] BIOS-e820: [mem 0x000000000009f000-0x000000000009ffff] reserved
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] BIOS-e820: [mem 0x0000000000100000-0x00000000000dffff] usable
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] BIOS-e820: [mem 0x0000000000dffff000-0x0000000000dfffffff] ACPI data
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] BIOS-e820: [mem 0x0000000000fec00000-0x0000000000fec0bfff] reserved
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] BIOS-e820: [mem 0x0000000000fec0b000-0x0000000000fec0ffff] reserved
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] BIOS-e820: [mem 0x0000000000ffffc000-0x0000000000fffffbfff] reserved
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] BIOS-e820: [mem 0x000000001000000000-0x0000000010a3ffff] usable
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] NX (Execute Disable) protection: active
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] SMBIOS 2.5 present.
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] DMI: innotech GmbH VirtualBox/VirtualBox, BIOS VirtualBox 12/01/2006
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] Hypervisor detected: KVM
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] kvm-clock: Using msrc 4b564d01 and 4b564d00
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] kvm-clock: cpu 0, msrc d2c01001, primary cpu clock
Dec 29 16:20:07 manikanta-VirtualBox kernel: [ 0.000000] kvm-clock: using sched offset of 3882628826 cycles
manikanta@manikanta-VirtualBox:~$
```


3) What command should I use to display the last 30 entries of the Syslog file?

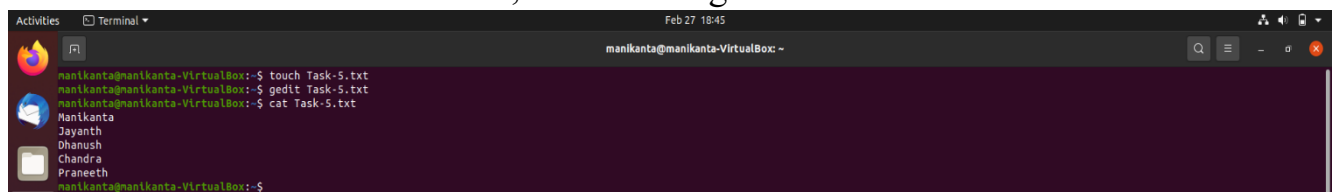
➤ Command is “tail -n30 /var/log/Syslog”



```
manikanta@manikanta-VirtualBox: ~$ tail -n30 /var/log/syslog
Feb 27 18:36:03 manikanta-VirtualBox systemd[1300]: Starting Tracker metadata extractor...
Feb 27 18:36:03 manikanta-VirtualBox tracker-extract[2663]: Set scheduler policy to SCHED_IDLE
Feb 27 18:36:03 manikanta-VirtualBox tracker-extract[2663]: Setting priority nice level to 19
Feb 27 18:36:03 manikanta-VirtualBox dbus-daemon[1310]: [session uid=1000 pid=1310] Successfully activated service 'org.freedesktop.Tracker1.Miner.Extract'
Feb 27 18:36:03 manikanta-VirtualBox systemd[1300]: Started Tracker metadata extractor.
Feb 27 18:36:14 manikanta-VirtualBox systemd[1300]: tracker-extract.service: Succeeded.
Feb 27 18:36:52 manikanta-VirtualBox tracker-store[2656]: OK
Feb 27 18:36:52 manikanta-VirtualBox systemd[1300]: tracker-store.service: Succeeded.
Feb 27 18:40:47 manikanta-VirtualBox dbus-daemon[1310]: [session uid=1000 pid=1310] Activating via systemd: service name='org.freedesktop.Tracker1' unit='tracker-store.service' requested by ':1.2' (uid=1000 pid=1308 comm="/usr/libexec/tracker-miner-fs" label="unconfined")
Feb 27 18:40:47 manikanta-VirtualBox systemd[1300]: Starting Tracker metadata database store and lookup manager...
Feb 27 18:40:47 manikanta-VirtualBox dbus-daemon[1310]: [session uid=1000 pid=1310] Successfully activated service 'org.freedesktop.Tracker1'
Feb 27 18:40:47 manikanta-VirtualBox systemd[1300]: Started Tracker metadata database store and lookup manager.
Feb 27 18:41:17 manikanta-VirtualBox tracker-store[2708]: OK
Feb 27 18:41:17 manikanta-VirtualBox systemd[1300]: tracker-store.service: Succeeded.
Feb 27 18:41:22 manikanta-VirtualBox systemd[1300]: Started VTE child process 2716 launched by gnome-terminal-server process 1866.
Feb 27 18:42:02 manikanta-VirtualBox update-notifier.desktop[2727]: /usr/lib/ubuntu-release-upgrader/check-new-release-gtk:30: PyGIWarning: Gtk was imported without specifying a version first. Use gi.require_version('Gtk', '3.0') before import to ensure that the right version gets loaded.
Feb 27 18:42:02 manikanta-VirtualBox update-notifier.desktop[2727]: from gi.repository: Import Gtk
Feb 27 18:42:02 manikanta-VirtualBox update-notifier.desktop[2727]: WARNING:root:timeout reached, exiting
Feb 27 18:42:16 manikanta-VirtualBox dbus-daemon[1310]: [session uid=1000 pid=1310] Activating via systemd: service name='org.freedesktop.Tracker1' unit='tracker-store.service' requested by ':1.2' (uid=1000 pid=1308 comm="/usr/libexec/tracker-miner-fs" label="unconfined")
Feb 27 18:42:16 manikanta-VirtualBox systemd[1300]: Starting Tracker metadata database store and lookup manager...
Feb 27 18:42:16 manikanta-VirtualBox dbus-daemon[1310]: [session uid=1000 pid=1310] Successfully activated service 'org.freedesktop.Tracker1'
Feb 27 18:42:16 manikanta-VirtualBox systemd[1300]: Started Tracker metadata database store and lookup manager.
Feb 27 18:42:24 manikanta-VirtualBox systemd[1300]: vte-spawn-e7a46dff-0578-4e13-8211-b233385fd385.scope: Succeeded.
Feb 27 18:42:43 manikanta-VirtualBox systemd[1300]: Started VTE child process 2748 launched by gnome-terminal-server process 1866.
Feb 27 18:42:46 manikanta-VirtualBox systemd[1300]: vte-spawn-c48a7e8-c3bf-4976-bca8-e66af8c4ae28.scope: Succeeded.
Feb 27 18:42:47 manikanta-VirtualBox tracker-store[2739]: OK
Feb 27 18:42:47 manikanta-VirtualBox systemd[1300]: tracker-store.service: Succeeded.
Feb 27 18:42:56 manikanta-VirtualBox systemd[1300]: Started VTE child process 2757 launched by gnome-terminal-server process 1866.
Feb 27 18:44:10 manikanta-VirtualBox systemd[1300]: vte-spawn-5f1d4b26-1ed8-47e7-b6f6-e2a381e8b0d9.scope: Succeeded.
Feb 27 18:44:11 manikanta-VirtualBox systemd[1300]: Started VTE child process 2767 launched by gnome-terminal-server process 1866.
manikanta@manikanta-VirtualBox: ~$
```

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

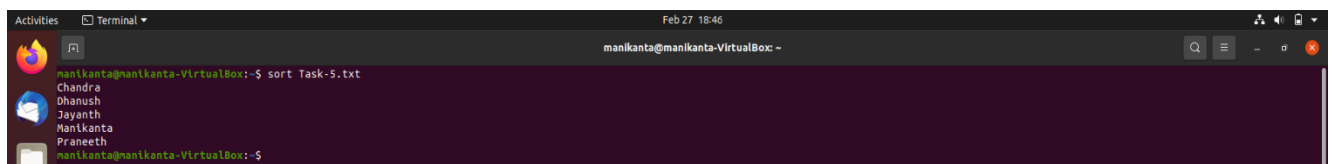
I created a file “Task-5.txt”, for executing the commands.



```
manikanta@manikanta-VirtualBox: ~$ touch Task-5.txt
manikanta@manikanta-VirtualBox: ~$ gedit Task-5.txt
manikanta@manikanta-VirtualBox: ~$ cat Task-5.txt
Jayanth
Dhanush
Chandra
Manikanta
Praneeth
manikanta@manikanta-VirtualBox: ~$
```

➤ Alphabetical order

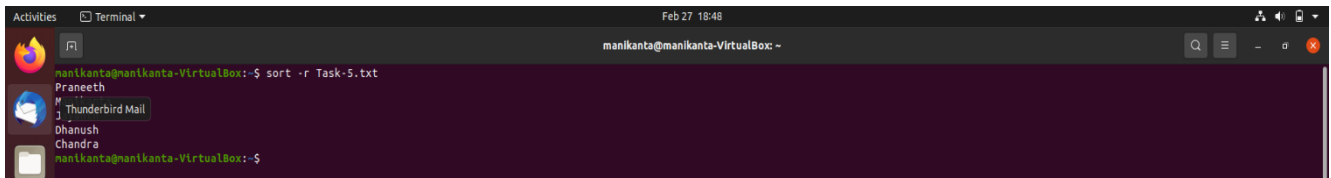
Command to find alphabetical order is “sort filename”



```
manikanta@manikanta-VirtualBox: ~$ sort Task-5.txt
Chandra
Dhanush
Jayanth
Manikanta
Praneeth
manikanta@manikanta-VirtualBox: ~$
```


➤ Reverse order

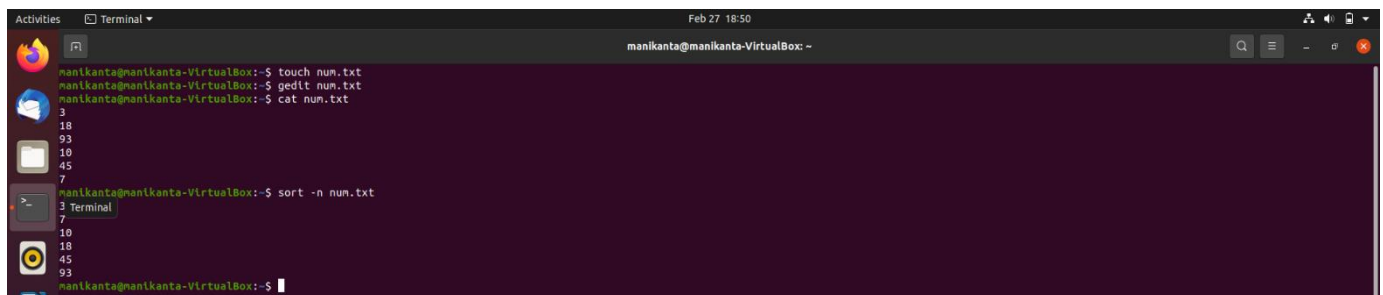
Command to find the reverse order is “tac filename” or “sort -r filename”

A terminal window titled 'manikanta@manikanta-VirtualBox: ~' showing the command 'sort -r Task-5.txt' being executed. The output lists names in reverse alphabetical order: Praneeth, M, J, Thunderbird Mail, Dhanush, and Chandra.

```
manikanta@manikanta-VirtualBox:~$ sort -r Task-5.txt
Praneeth
M
J
Thunderbird Mail
Dhanush
Chandra
manikanta@manikanta-VirtualBox:~$
```

➤ Numerical order

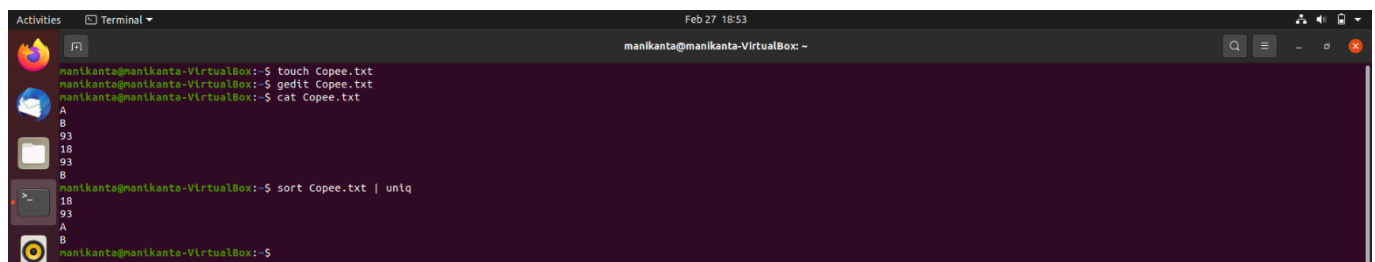
Command to find the numerical order is “sort -n filename”

A terminal window titled 'manikanta@manikanta-VirtualBox: ~' showing the creation of a file 'num.txt' and its contents. The file contains the numbers 3, 18, 93, 10, 45, and 7. The command 'sort -n num.txt' is then executed, resulting in the numbers being sorted in ascending order: 3, 7, 10, 18, 45, and 93.

```
manikanta@manikanta-VirtualBox:~$ touch num.txt
manikanta@manikanta-VirtualBox:~$ gedit num.txt
manikanta@manikanta-VirtualBox:~$ cat num.txt
3
18
93
10
45
7
manikanta@manikanta-VirtualBox:~$ sort -n num.txt
3
7
10
18
45
93
manikanta@manikanta-VirtualBox:~$
```

5) Copee is a hard-working cop. He found a case and was almost on 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?

➤ The command “sort filename | uniq”.

A terminal window titled 'manikanta@manikanta-VirtualBox: ~' showing the creation of a file 'Copee.txt' and its contents. The file contains the letters A, B, 93, 18, 93, and B. The command 'sort Copee.txt | uniq' is then executed, resulting in the unique elements being sorted: 18, 93, A, and B.

```
manikanta@manikanta-VirtualBox:~$ touch Copee.txt
manikanta@manikanta-VirtualBox:~$ gedit Copee.txt
manikanta@manikanta-VirtualBox:~$ cat Copee.txt
A
B
93
18
93
B
manikanta@manikanta-VirtualBox:~$ sort Copee.txt | uniq
18
93
A
B
manikanta@manikanta-VirtualBox:~$
```

6) What are the four parts of the file's permission?

- File permissions control what user is permitted to perform which actions on a file. File permissions form a crucial part of a resistance strategy.
- Files and directories can have three types of permissions:
 - Read
 - Write
 - Execute
 - Delete

1) Read permission - The Read permission refers to a user's capability to read the contents of the file.

2) Write permission - The Write permissions refer to a user's capability to write or modify a file or directory.

3) Execute permission - The Execute permission affects a user's capability to execute a file or view the contents of a directory.

4) Delete permission – The Delete permission refers to deletion of the file.

- There are three user categories: User (the owner of the file), Group (the security group you are in), and Other (for the world to see). Each category has three permissions that can be set: r, w, and x to read, write, and execute a file, respectively. Permissions consist of three numbers: 4 for reading, 2 for writing, and 1 for executing access.

1	--x	Execute only
2	-w-	Write access only
3	-wx	Write and execute
4	r--	Read-only
5	r-x	Read and execution
6	rw-	Read and write
7	rwX	Read, write and execute (full access)