

## TASK 5

### PART 2

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

```
mouluka@mouluka-VirtualBox:~/Desktop/cognizance/Main_Directory/5$ cd
mouluka@mouluka-VirtualBox:~$ printf "mouluka\n%.0s" {1..25}
mouluka
mouluka
mouluka
mouluka
mouluka
mouluka
mouluka
mouluka
mouluka
mouluka
mouluka
mouluka
mouluka
mouluka
mouluka
mouluka
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mouluka
mouluka
mouluka
mouluka@mouluka-VirtualBox:~$
```

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

```
mouluka@mouluka-VirtualBox:~$ head -n 30 /var/log/syslog
Jan 15 12:01:22 mouluka-VirtualBox systemd-modules-load[271]: Inserted module 'lp'
Jan 15 12:01:22 mouluka-VirtualBox systemd-modules-load[271]: Inserted module 'ppdev'
Jan 15 12:01:22 mouluka-VirtualBox systemd-modules-load[271]: Inserted module 'parport_pc'
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] Linux version 5.11.0-46-generic (build@lgw01-and64-010) (gcc (Ubuntu 9.3.0-17ubuntu
1-20.04) 9.3.0, GNU ld (GNU Binutils for Ubuntu) 2.34) #51-20.04.1-Ubuntu SMP Fri Jan 7 06:51:40 UTC 2022 (Ubuntu 5.11.0-46.51-20.04.1-generic
5.11.22)
Jan 15 12:01:22 mouluka-VirtualBox systemd-modules-load[271]: Inserted module 'msr'
Jan 15 12:01:22 mouluka-VirtualBox systemd-modules-load[271]: Module 'fuse' is built in
Jan 15 12:01:22 mouluka-VirtualBox systemd[1]: Starting Flush Journal to Persistent Storage...
Jan 15 12:01:22 mouluka-VirtualBox systemd-sysusers[282]: Creating group systemd-coredump with gid 999.
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-5.11.0-46-generic root=UUID=b20bfea8-7aec-422
0-a3d8-72adcbic9de0 ro quiet splash
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] KERNEL supported cpus:
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] Intel GenuineIntel
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] AMD AuthenticAMD
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] Hygon HygonGenuine
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] Centaur CentaurHauls
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] zhaoxin Shanghai
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] [Firmware Bug]: TSC doesn't count with P0 frequency!
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] x86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point registers'
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] x86/fpu: Supporting XSAVE feature 0x002: 'SSE registers'
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] x86/fpu: Supporting XSAVE feature 0x004: 'AVX registers'
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] x86/fpu: xstate_offset[2]: 576, xstate_sizes[2]: 256
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] x86/fpu: Enabled xstate features 0x7, context size is 832 bytes, using 'standard' fo
rmat.
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] BIOS-provided physical RAM map:
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] BIOS-e820: [mem 0x0000000000000000-0x000000000000fbff] usable
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] BIOS-e820: [mem 0x000000000000fc00-0x000000000000ffff] reserved
Jan 15 12:01:22 mouluka-VirtualBox systemd-sysusers[282]: Creating user systemd-coredump (systemd Core Dumper) with uid 999 and gid 999.
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] BIOS-e820: [mem 0x0000000000010000-0x000000000000ffff] reserved
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] BIOS-e820: [mem 0x0000000000010000-0x000000000000ffff] usable
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] BIOS-e820: [mem 0x0000000000000000-0x000000000000ffff] ACPI data
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] BIOS-e820: [mem 0x00000000fec00000-0x00000000fec00fff] reserved
Jan 15 12:01:22 mouluka-VirtualBox kernel: [ 0.000000] BIOS-e820: [mem 0x00000000fee00000-0x00000000fee00fff] reserved
mouluka@mouluka-VirtualBox:~$
```

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

```
moulika@moulika-VirtualBox:~$ tail -n 30 /var/log/syslog
Feb 25 20:08:11 moulika-VirtualBox dbus-daemon[1380]: [session uid=1000 pid=1380] Successfully activated service 'org.freedesktop.Tracker1'
Feb 25 20:08:11 moulika-VirtualBox systemd[1369]: Started Tracker metadata database store and lookup manager.
Feb 25 20:08:11 moulika-VirtualBox dbus-daemon[1380]: [session uid=1000 pid=1380] Activating via systemd: service name='org.freedesktop.Tracker1.Min
er.Extract' unit='tracker-extract.service' requested by ':1.1' (uid=1000 pid=1377 comm="/usr/libexec/tracker-miner-fs " label='unconfine
d')
Feb 25 20:08:11 moulika-VirtualBox systemd[1369]: Starting Tracker metadata extractor...
Feb 25 20:08:11 moulika-VirtualBox tracker-extract[5072]: Set scheduler policy to SCHED_IDLE
Feb 25 20:08:11 moulika-VirtualBox tracker-extract[5072]: Setting priority nice level to 19
Feb 25 20:08:11 moulika-VirtualBox dbus-daemon[1380]: [session uid=1000 pid=1380] Successfully activated service 'org.freedesktop.Tracker1.Min
er.Extract'
Feb 25 20:08:11 moulika-VirtualBox systemd[1369]: Started Tracker metadata extractor.
Feb 25 20:08:22 moulika-VirtualBox systemd[1369]: tracker-extract.service: Succeeded.
Feb 25 20:08:42 moulika-VirtualBox tracker-store[5965]: OK
Feb 25 20:08:42 moulika-VirtualBox systemd[1369]: tracker-store.service: Succeeded.
Feb 25 20:17:01 moulika-VirtualBox CRON[5123]: (root) CMD ( cd / && run-parts --report /etc/cron.hourly)
Feb 25 20:26:08 moulika-VirtualBox NetworkManager[642]: <info> [1645800968.3500] manager: NetworkManager state is now CONNECTED_SITE
Feb 25 20:26:08 moulika-VirtualBox systemd[1]: Starting Network Manager Script Dispatcher Service...
Feb 25 20:26:08 moulika-VirtualBox whoopsie[785]: [20:26:08] offline
Feb 25 20:26:08 moulika-VirtualBox dbus-daemon[641]: [system] Activating via systemd: service name='org.freedesktop.nm_dispatcher' unit='dbus-
org.freedesktop.nm_dispatcher.service' requested by ':1.13' (uid=0 pid=642 comm="/usr/sbin/NetworkManager --no-daemon " label='unconfined')
Feb 25 20:26:08 moulika-VirtualBox systemd[1]: Started Network Manager Script Dispatcher Service.
Feb 25 20:26:08 moulika-VirtualBox dbus-daemon[641]: [system] Successfully activated service 'org.freedesktop.nm_dispatcher'
Feb 25 20:26:08 moulika-VirtualBox NetworkManager[642]: <info> [1645800968.8104] manager: NetworkManager state is now CONNECTED_GLOBAL
Feb 25 20:26:08 moulika-VirtualBox whoopsie[785]: [20:26:08] The default IPv4 route is: /org/freedesktop/NetworkManager/ActiveConnection/1
Feb 25 20:26:08 moulika-VirtualBox whoopsie[785]: [20:26:08] Not a paid data plan: /org/freedesktop/NetworkManager/ActiveConnection/1
Feb 25 20:26:08 moulika-VirtualBox whoopsie[785]: [20:26:08] Found usable connection: /org/freedesktop/NetworkManager/ActiveConnection/1
Feb 25 20:26:10 moulika-VirtualBox whoopsie[785]: [20:26:10] online
Feb 25 20:26:19 moulika-VirtualBox systemd[1]: NetworkManager-dispatcher.service: Succeeded.
Feb 25 20:30:01 moulika-VirtualBox CRON[5193]: (root) CMD ([ -x /etc/init.d/anacron ] && if [ ! -d /run/systemd/system ]; then /usr/sbin/invo
k e-r-c.d anacron start >/dev/null; fi)
Feb 25 20:32:11 moulika-VirtualBox systemd[1]: Started Run anacron jobs.
Feb 25 20:32:11 moulika-VirtualBox systemd[1]: anacron.service: Succeeded.
Feb 25 20:32:11 moulika-VirtualBox anacron[5204]: Anacron 2.3 started on 2022-02-25
Feb 25 20:32:11 moulika-VirtualBox anacron[5204]: Normal exit (0 jobs run)
Feb 25 20:50:37 moulika-VirtualBox gnome-shell[1651]: ../clutter/clutter/clutter_actor.c:10558: The clutter_actor_set_allocation() function ca
n only be called from within the implementation of the ClutterActor::allocate() virtual function.
moulika@moulika-VirtualBox:~$
```

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

#### a. Alphabetically

```
moulika@moulika-VirtualBox:~/Desktop$ touch test1.txt
moulika@moulika-VirtualBox:~/Desktop$ sort test1.txt

a
b
c
d
e
f
g
```

#### b. Reverse

```
moulika@moulika-VirtualBox:~/Desktop$ sort -r test1.txt

g
f
e
d
c
b
a
```

### c. Numeric

```
mouluka@mouluka-VirtualBox:~/Desktop$ sort -n test1.txt
0
1
2
3
4
5
6
7
8
9
mouluka@mouluka-VirtualBox:~/Desktop$
```

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 <filename> | uniq --c`

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

1. Read
2. Write
3. Delete
4. Execute