COGNIZANCE

TASK-5
QUESTION-2

SIDESHSUNDAR(21150)

CSE AI-B

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

We will use :

    chmod +x Question1.sh

    ./Question.sh

```
Question1.sh                              ×

1
2 for((i=1;i<=25;i++))
3 do
4        echo "Sideshsundar"
5 done
```

```
sidesh26@sidesh26-VirtualBox:~/Desktop$ chmod +x Question1.sh
sidesh26@sidesh26-VirtualBox:~/Desktop$ ./Question1.sh
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
Sideshsundar
sidesh26@sidesh26-VirtualBox:~/Desktop$
```

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

We will use :
head -30 /var/log/syslog

```
sidesh26@sidesh26-VirtualBox:~/Desktop$ head -30 /var/log/syslog
Feb 26 15:48:25 sidesh26-VirtualBox systemd-modules-load[223]: Inserted module 'lp'
Feb 26 15:48:25 sidesh26-VirtualBox systemd-modules-load[223]: Inserted module 'ppdev'
Feb 26 15:48:25 sidesh26-VirtualBox systemd-modules-load[223]: Inserted module 'parport_pc'
Feb 26 15:48:25 sidesh26-VirtualBox systemd-modules-load[223]: Inserted module 'msr'
Feb 26 15:48:25 sidesh26-VirtualBox systemd-modules-load[223]: Module 'fuse' is built in
Feb 26 15:48:25 sidesh26-VirtualBox systemd-sysusers[235]: Creating group systemd-coredump with gid 999.
Feb 26 15:48:25 sidesh26-VirtualBox systemd-sysusers[235]: Creating user systemd-coredump (systemd Core Dumper) with uid 999 and gid 999.
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Starting Flush Journal to Persistent Storage...
Feb 26 15:48:25 sidesh26-VirtualBox systemd-modules-load[223]: Inserted module 'vmwgfx'
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Finished Load Kernel Modules.
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Mounting FUSE Control File System...
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Mounting Kernel Configuration File System...
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Starting Apply Kernel Variables...
Feb 26 15:48:25 sidesh26-VirtualBox systemd-sysctl[256]: Not setting net/ipv4/conf/all/promote_secondaries (explicit setting exists).
Feb 26 15:48:25 sidesh26-VirtualBox systemd-sysctl[256]: Not setting net/ipv4/conf/default/promote_secondaries (explicit setting exists).
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Finished Set the console keyboard layout.
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Finished udev Coldplug all Devices.
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Finished Flush Journal to Persistent Storage.
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Mounted FUSE Control File System.
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Mounted Kernel Configuration File System.
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Reached target Local File Systems (Pre).
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Condition check resulted in VMware vmblock fuse mount being skipped.
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Mounting Mount unit for core18, revision 2128...
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Mounting Mount unit for gnome-3-34-1804, revision 72...
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Mounting Mount unit for gtk-common-themes, revision 1515...
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Mounting Mount unit for snap-store, revision 547...
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Mounting Mount unit for snapd, revision 12704...
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Finished Apply Kernel Variables.
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Mounted Mount unit for core18, revision 2128.
Feb 26 15:48:25 sidesh26-VirtualBox systemd[1]: Mounted Mount unit for gnome-3-34-1804, revision 72.
```
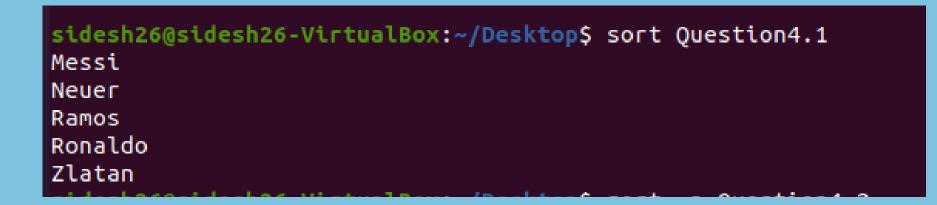
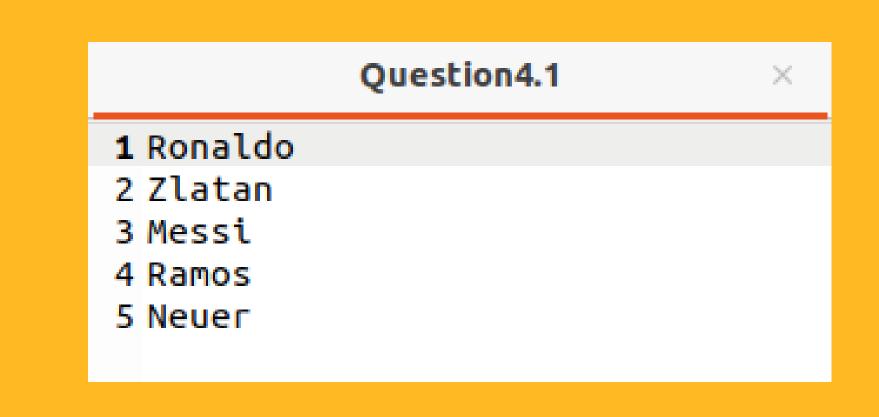# 3. What command should I use to display the last 30 entries of syslog file?

We will use :

tail -30 /var/log/syslog

```
sidesh26@sidesh26-VirtualBox:~/Desktop$ tail -30 /var/log/syslog
Feb 27 01:49:40 sidesh26-VirtualBox systemd[878]: Starting Tracker metadata extractor...
Feb 27 01:49:40 sidesh26-VirtualBox tracker-extract[3280]: Set scheduler policy to SCHED_IDLE
Feb 27 01:49:40 sidesh26-VirtualBox tracker-extract[3280]: Setting priority nice level to 19
Feb 27 01:49:40 sidesh26-VirtualBox dbus-daemon[893]: [session uid=1000 pid=893] Successfully activated service 'org.freedesktop.Tracker1.Mine
r.Extract'
Feb 27 01:49:40 sidesh26-VirtualBox systemd[878]: Started Tracker metadata extractor.
Feb 27 01:49:49 sidesh26-VirtualBox dbus-daemon[893]: [session uid=1000 pid=893] Activating service name='org.gnome.Nautilus' requested by ':1
.42' (uid=1000 pid=1165 comm="/usr/bin/gnome-shell " label="unconfined")
Feb 27 01:49:50 sidesh26-VirtualBox dbus-daemon[893]: [session uid=1000 pid=893] Successfully activated service 'org.gnome.Nautilus'
Feb 27 01:49:51 sidesh26-VirtualBox systemd[878]: tracker-extract.service: Succeeded.
Feb 27 01:49:53 sidesh26-VirtualBox dbus-daemon[548]: [system] Activating via systemd: service name='org.freedesktop.hostname1' unit='dbus-org
.freedesktop.hostname1.service' requested by ':1.107' (uid=1000 pid=3299 comm="/usr/bin/nautilus --gapplication-service " label="unconfined")
Feb 27 01:49:53 sidesh26-VirtualBox systemd[1]: Starting Hostname Service...
Feb 27 01:49:54 sidesh26-VirtualBox dbus-daemon[548]: [system] Successfully activated service 'org.freedesktop.hostname1'
Feb 27 01:49:54 sidesh26-VirtualBox systemd[1]: Started Hostname Service.
Feb 27 01:49:54 sidesh26-VirtualBox nautilus[3299]: Called "net usershare info" but it failed: Failed to execute child process "net" (No such
file or directory)
Feb 27 01:50:07 sidesh26-VirtualBox gnome-shell[1165]: ../clutter/clutter/clutter-actor.c:10558: The clutter_actor_set_allocation() function c
an only be called from within the implementation of the ClutterActor::allocate() virtual function.
Feb 27 01:50:11 sidesh26-VirtualBox tracker-store[3243]: OK
Feb 27 01:50:11 sidesh26-VirtualBox systemd[878]: tracker-store.service: Succeeded.
Feb 27 01:50:24 sidesh26-VirtualBox systemd[1]: systemd-hostnamed.service: Succeeded.
Feb 27 01:50:38 sidesh26-VirtualBox dbus-daemon[893]: [session uid=1000 pid=893] Activating via systemd: service name='org.freedesktop.Tracker
1' unit='tracker-store.service' requested by ':1.1' (uid=1000 pid=886 comm="/usr/libexec/tracker-miner-fs " label="unconfined")
Feb 27 01:50:38 sidesh26-VirtualBox systemd[878]: Starting Tracker metadata database store and lookup manager...
Feb 27 01:50:38 sidesh26-VirtualBox dbus-daemon[893]: [session uid=1000 pid=893] Successfully activated service 'org.freedesktop.Tracker1'
Feb 27 01:50:38 sidesh26-VirtualBox systemd[878]: Started Tracker metadata database store and lookup manager.
Feb 27 01:50:43 sidesh26-VirtualBox dbus-daemon[893]: [session uid=1000 pid=893] Activating via systemd: service name='org.freedesktop.Tracker
1.Miner.Extract' unit='tracker-extract.service' requested by ':1.1' (uid=1000 pid=886 comm="/usr/libexec/tracker-miner-fs " label="unconfined"
)
Feb 27 01:50:43 sidesh26-VirtualBox systemd[878]: Starting Tracker metadata extractor...
Feb 27 01:50:43 sidesh26-VirtualBox tracker-extract[3350]: Set scheduler policy to SCHED_IDLE
Feb 27 01:50:43 sidesh26-VirtualBox tracker-extract[3350]: Setting priority nice level to 19
```

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

We will use :

   sort Question4.1

Question4.1

```
1 Ronaldo
2 Zlatan
3 Messi
4 Ramos
5 Neuer
```

```
sidesh26@sidesh26-VirtualBox:~/Desktop$ sort Question4.1
Messi
Neuer
Ramos
Ronaldo
Zlatan
```

4. What command should I use to arrange the entries of a file
ii. Reverse order
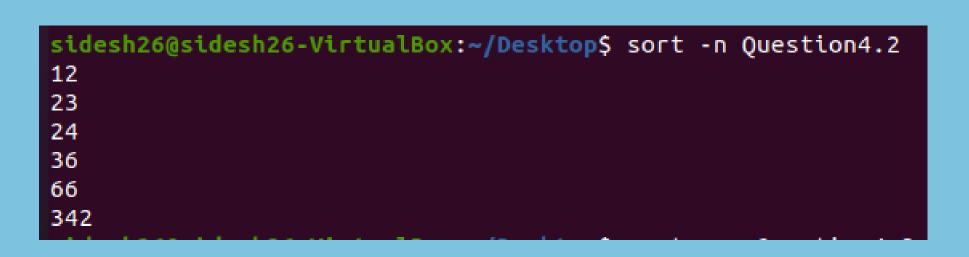
We will use :

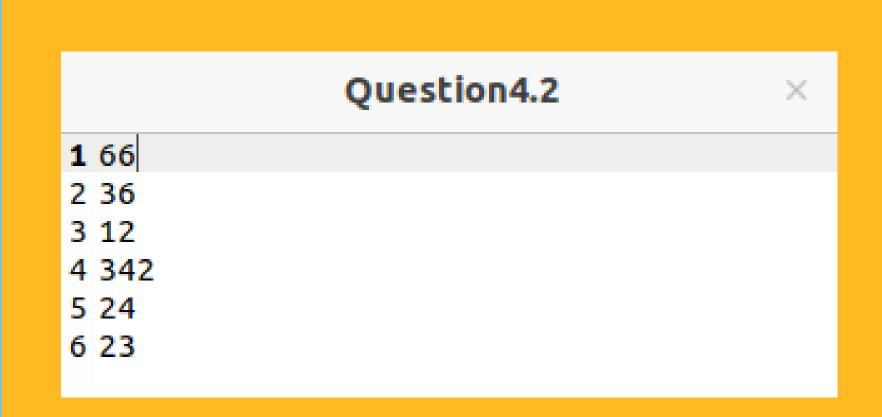sort -nr Question4.1

Question4.2

```
1 66
2 36
3 12
4 342
5 24
6 23
```

```
sidesh26@sidesh26-VirtualBox:~/Desktop$ sort -nr Question4.2
342
66
36
24
23
12
```

4. What command should I use to arrange the entries of a file
iii. Numerical order

We will use :

    sort -n Question4.2

Question4.2

```
1 66
2 36
3 12
4 342
5 24
6 23
```

```
sidesh26@sidesh26-VirtualBox:~/Desktop$ sort -n Question4.2
12
23
24
36
66
342
```
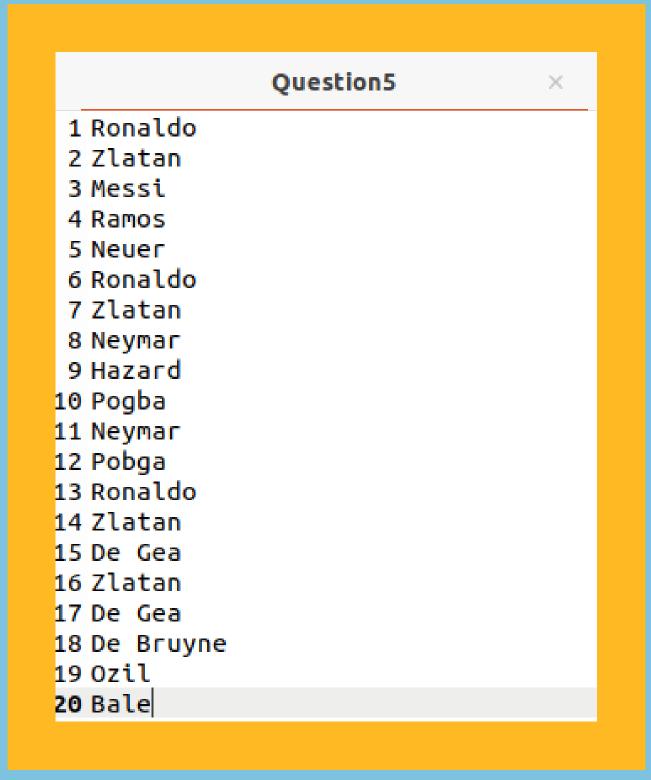
5. Copee is a hard-working cop. He found a case and almost at the verge of cracking it. It could be his best breakthrough. He has the list of criminals but lots of duplicates are there. He needs to find the only one that is different. He sought your help. How will you sort this issue?

We will use :
    sort -u Question5

```
sidesh26@sidesh26-VirtualBox:~/Desktop$ sort -u Question5
Bale
De Bruyne
De Gea
Hazard
Messi
Neuer
Neymar
Ozil
Pobga
Pogba
Ramos
Ronaldo
Zlatan
```

Question5   ✕

```
 1 Ronaldo
 2 Zlatan
 3 Messi
 4 Ramos
 5 Neuer
 6 Ronaldo
 7 Zlatan
 8 Neymar
 9 Hazard
10 Pogba
11 Neymar
12 Pobga
13 Ronaldo
14 Zlatan
15 De Gea
16 Zlatan
17 De Gea
18 De Bruyne
19 Ozil
20 Bale
```

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

The three types of file's permissions in linux are:

1. Read (r) : The read permission allows you to open and read the content of a file. But you can't do any editing or modification in the file.

2. Write (w) : The write permission allows you to edit, remove or rename a file. For instance, if a file is present in a directory, and write permission is set on the file but not on the directory, then you can edit the content of the file but can't remove, or rename it.

3. Execute (x): In Unix type system, you can't run or execute a program unless execute permission is set.But in Windows, there is no such permission available.