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CLASS:SECTION-C

DEPARTMENT :COMPUTER SCIENCE AND  
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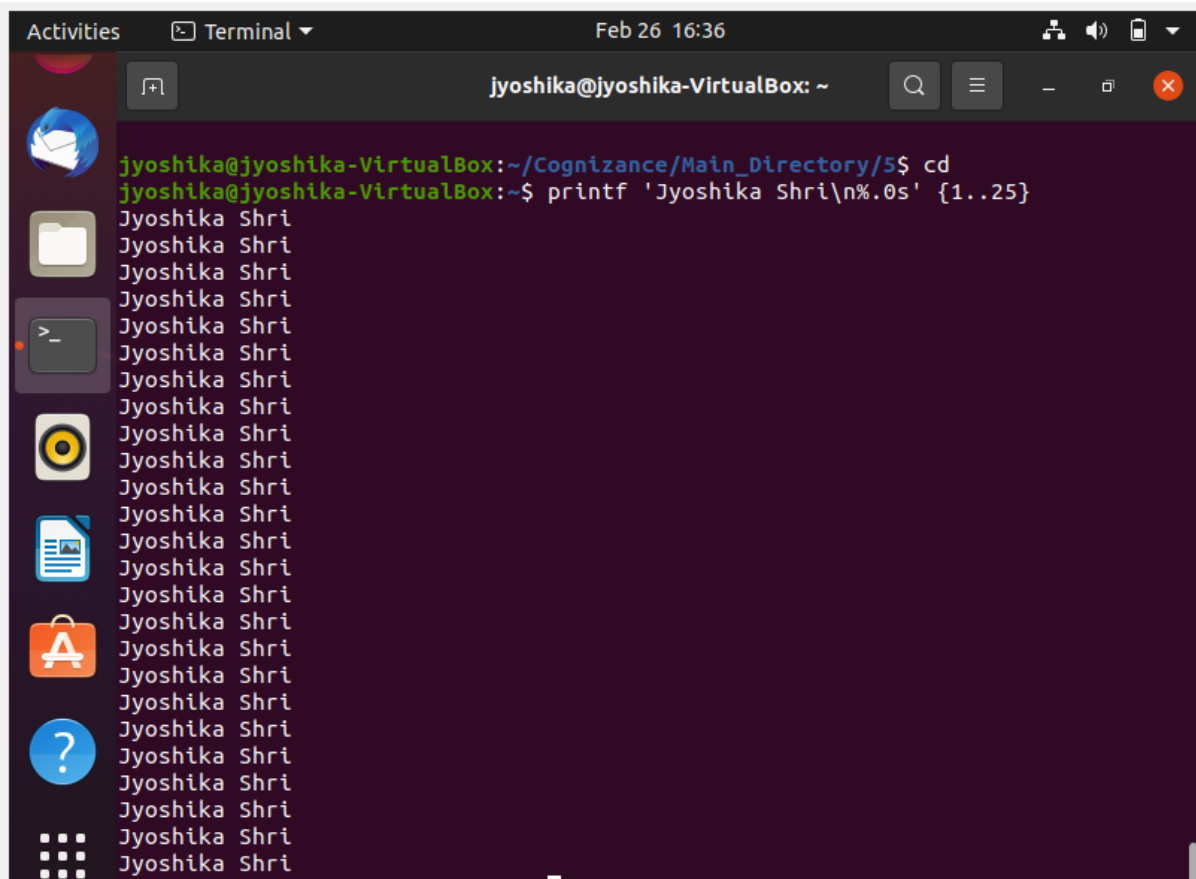
TASK -5

PART – 2

QUESTION-1:

- Write a bash script to echo your name 25 times

SOLUTION: `printf 'Jyoshika Shri\n%.0s' {1..25}`



The screenshot shows a terminal window titled "jyoshika@jyoshika-VirtualBox: ~". The user has navigated to the directory `~/Cognizance/Main_Directory/5` and executed the command `printf 'Jyoshika Shri\n%.0s' {1..25}`. The terminal output displays the text "Jyoshika Shri" repeated 25 times, each on a new line. The left sidebar of the desktop environment shows various application icons, including a file manager, a terminal, a media player, a document viewer, and a web browser.

QUESTION-2:

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

SOLUTION: `head -n 30 /var/log/syslog`

```
ies Terminal Feb 26 16:40
jyoshika@jyoshika-VirtualBox: ~
Jyoshika Shri
Jyoshika Shri
jyoshika@jyoshika-VirtualBox:~$ head -n 30 /var/log/syslog
Dec 22 12:18:57 jyoshika-VirtualBox rsyslogd: [origin software="rsyslogd" swVersion="8.2001.0" x-pid="581" x-info="http
s://www.rsyslog.com"] rsyslogd was HUPed
Dec 22 12:18:57 jyoshika-VirtualBox systemd[1]: logrotate.service: Succeeded.
Dec 22 12:18:57 jyoshika-VirtualBox systemd[1]: Finished Rotate log files.
Dec 22 12:18:57 jyoshika-VirtualBox whoopsie[732]: [12:18:57] offline
Dec 22 12:18:57 jyoshika-VirtualBox systemd[718]: Started Pending report trigger for Ubuntu Report.
Dec 22 12:18:57 jyoshika-VirtualBox kernel: [ 8.846659] systemd-journald[221]: File /var/log/journal/f9885692354946d
3ba5db1bda906b2a1/user-1000.journal corrupted or uncleanly shut down, renaming and replacing.
Dec 22 12:18:57 jyoshika-VirtualBox systemd[718]: Reached target Paths.
Dec 22 12:18:57 jyoshika-VirtualBox systemd[718]: Reached target Timers.
Dec 22 12:18:57 jyoshika-VirtualBox systemd[718]: Starting D-Bus User Message Bus Socket.
Dec 22 12:18:57 jyoshika-VirtualBox systemd[718]: Listening on GnuPG network certificate management daemon.
Dec 22 12:18:57 jyoshika-VirtualBox systemd[718]: Listening on GnuPG cryptographic agent and passphrase cache (access f
or web browsers).
Dec 22 12:18:57 jyoshika-VirtualBox systemd[718]: Listening on GnuPG cryptographic agent and passphrase cache (restrict
ed).
Dec 22 12:18:57 jyoshika-VirtualBox systemd[718]: Listening on GnuPG cryptographic agent (ssh-agent emulation).
Dec 22 12:18:57 jyoshika-VirtualBox systemd[718]: Listening on GnuPG cryptographic agent and passphrase cache.
Dec 22 12:18:57 jyoshika-VirtualBox systemd[718]: Listening on debconf communication socket.
Dec 22 12:18:57 jyoshika-VirtualBox systemd[718]: Listening on Sound System.
Dec 22 12:18:57 jyoshika-VirtualBox systemd[718]: Listening on REST API socket for snapd user session agent.
Dec 22 12:18:57 jyoshika-VirtualBox systemd[718]: Listening on D-Bus User Message Bus Socket.
Dec 22 12:18:57 jyoshika-VirtualBox systemd[718]: Reached target Sockets.
Dec 22 12:18:57 jyoshika-VirtualBox systemd[718]: Reached target Basic System.
Dec 22 12:18:57 jyoshika-VirtualBox systemd[1]: Started User Manager for UID 1000.
Dec 22 12:18:57 jyoshika-VirtualBox systemd[1]: Started Session 1 of user jyoshika.
Dec 22 12:18:57 jyoshika-VirtualBox systemd[718]: Starting Sound Service...
Dec 22 12:18:57 jyoshika-VirtualBox systemd[718]: Starting Tracker metadata extractor...
Dec 22 12:18:57 jyoshika-VirtualBox systemd[718]: Starting Tracker file system data miner...
Dec 22 12:18:57 jyoshika-VirtualBox tracker-miner-f[787]: Set scheduler policy to SCHED_IDLE
Dec 22 12:18:57 jyoshika-VirtualBox tracker-miner-f[787]: Setting priority nice level to 19
Dec 22 12:18:57 jyoshika-VirtualBox systemd[718]: Started D-Bus User Message Bus.
Dec 22 12:18:57 jyoshika-VirtualBox dbus-daemon[557]: [system] Activating via systemd: service name='org.freedesktop.Re
altimeKit1' unit='rtkit-daemon.service' requested by ':1.31' (uid=1000 pid=785 comm="/usr/bin/pulseaudio --daemonize=no
--log-target=jo" label="unconfined")
Dec 22 12:18:57 jyoshika-VirtualBox systemd[1]: Starting RealtimeKit Scheduling Policy Service...
jyoshika@jyoshika-VirtualBox:~$
```

QUESTION-3:

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

SOLUTION: tail -n 30 /var/log/syslog

```
es Terminal Feb 26 16:41
jyoshika@jyoshika-VirtualBox: ~
jyoshika@jyoshika-VirtualBox:~$ tail -n 30 /var/log/syslog
Feb 26 16:24:08 jyoshika-VirtualBox dbus-daemon[557]: [system] Activating via systemd: service name='org.freedesktop.nm_dispatcher' unit='dbus-org.freedesktop.nm-dispatcher.service' requested by ':1.10' (uid=0 pid=558 comm="/usr/sbin/NetworkManager --no-daemon " label="unconfined")
Feb 26 16:24:08 jyoshika-VirtualBox systemd[1]: Starting Network Manager Script Dispatcher Service...
Feb 26 16:24:08 jyoshika-VirtualBox dbus-daemon[557]: [system] Successfully activated service 'org.freedesktop.nm_dispatcher'
Feb 26 16:24:08 jyoshika-VirtualBox systemd[1]: Started Network Manager Script Dispatcher Service.
Feb 26 16:24:15 jyoshika-VirtualBox NetworkManager[558]: <info> [1645872855.1066] manager: NetworkManager state is now CONNECTED_GLOBAL
Feb 26 16:24:15 jyoshika-VirtualBox whoopsie[715]: [16:24:15] The default IPv4 route is: /org/freedesktop/NetworkManager/ActiveConnection/1
Feb 26 16:24:15 jyoshika-VirtualBox whoopsie[715]: [16:24:15] Not a paid data plan: /org/freedesktop/NetworkManager/ActiveConnection/1
Feb 26 16:24:15 jyoshika-VirtualBox whoopsie[715]: [16:24:15] Found usable connection: /org/freedesktop/NetworkManager/ActiveConnection/1
Feb 26 16:24:15 jyoshika-VirtualBox whoopsie[715]: [16:24:15] online
Feb 26 16:24:25 jyoshika-VirtualBox systemd[1]: NetworkManager-dispatcher.service: Succeeded.
Feb 26 16:29:32 jyoshika-VirtualBox NetworkManager[558]: <info> [1645873172.4114] manager: NetworkManager state is now CONNECTED_SITE
Feb 26 16:29:32 jyoshika-VirtualBox dbus-daemon[557]: [system] Activating via systemd: service name='org.freedesktop.nm_dispatcher' unit='dbus-org.freedesktop.nm-dispatcher.service' requested by ':1.10' (uid=0 pid=558 comm="/usr/sbin/NetworkManager --no-daemon " label="unconfined")
Feb 26 16:29:32 jyoshika-VirtualBox whoopsie[715]: [16:29:32] offline
Feb 26 16:29:32 jyoshika-VirtualBox systemd[1]: Starting Network Manager Script Dispatcher Service...
Feb 26 16:29:32 jyoshika-VirtualBox dbus-daemon[557]: [system] Successfully activated service 'org.freedesktop.nm_dispatcher'
Feb 26 16:29:32 jyoshika-VirtualBox systemd[1]: Started Network Manager Script Dispatcher Service.
Feb 26 16:29:33 jyoshika-VirtualBox NetworkManager[558]: <info> [1645873173.1427] manager: NetworkManager state is now CONNECTED_GLOBAL
Feb 26 16:29:33 jyoshika-VirtualBox whoopsie[715]: [16:29:33] The default IPv4 route is: /org/freedesktop/NetworkManager/ActiveConnection/1
Feb 26 16:29:33 jyoshika-VirtualBox whoopsie[715]: [16:29:33] Not a paid data plan: /org/freedesktop/NetworkManager/ActiveConnection/1
Feb 26 16:29:33 jyoshika-VirtualBox whoopsie[715]: [16:29:33] Found usable connection: /org/freedesktop/NetworkManager/ActiveConnection/1
Feb 26 16:29:34 jyoshika-VirtualBox whoopsie[715]: [16:29:34] online
Feb 26 16:29:43 jyoshika-VirtualBox systemd[1]: NetworkManager-dispatcher.service: Succeeded.
Feb 26 16:30:05 jyoshika-VirtualBox rtkit-daemon[782]: The canary thread is apparently starving. Taking action.
Feb 26 16:30:05 jyoshika-VirtualBox rtkit-daemon[782]: Demoting known real-time threads.
Feb 26 16:30:05 jyoshika-VirtualBox rtkit-daemon[782]: Successfully demoted thread 872 of process 762.
Feb 26 16:30:05 jyoshika-VirtualBox rtkit-daemon[782]: Successfully demoted thread 870 of process 762.
Feb 26 16:30:05 jyoshika-VirtualBox rtkit-daemon[782]: Successfully demoted thread 762 of process 762.
Feb 26 16:30:05 jyoshika-VirtualBox rtkit-daemon[782]: Demoted 3 threads.
Feb 26 16:30:05 jyoshika-VirtualBox CRON[3096]: (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 16:32:43 jyoshika-VirtualBox systemd[1]: Condition check resulted in Run anacron jobs being skipped.
jyoshika@jyoshika-VirtualBox:~$
```

## QUESTION-4:

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

- Alphabetically

SOLUTION: sort <filename>

The image displays two screenshots of a terminal window within a VirtualBox environment. The top screenshot, dated Feb 26 16:52, shows a user named 'jyoshika' at the 'jyoshika-VirtualBox' prompt. The user enters the command 'cat > test', which creates a file named 'test'. Subsequently, the user presses Ctrl-Z (^Z), resulting in a '[5]+ Stopped' message and the command 'cat > test' being repeated. The bottom screenshot, dated Feb 26 16:55, shows the same user and prompt. The user enters the command 'sort test', which sorts the contents of the 'test' file. Both screenshots show a vertical list of characters (U, Z, t, y, S, W, X, V) on the left side of the terminal window, likely representing a sidebar or a list of files.

```
jyoshika@jyoshika-VirtualBox: ~  
jyoshika@jyoshika-VirtualBox:~$ cat > test  
U  
Z  
t  
y  
S  
W  
X  
V  
^Z  
[5]+ Stopped cat > test  
jyoshika@jyoshika-VirtualBox:~$ cat test  
U  
Z  
t  
y  
S  
W  
X  
V  
  
jyoshika@jyoshika-VirtualBox: ~  
jyoshika@jyoshika-VirtualBox:~$ sort test  
S  
t  
U  
V  
W  
X  
Y  
Z
```

- Reverse order

SOLUTION: `sort -r <filename>`

```
activities Terminal Feb 26 16:56
jyoshika@jyoshika-VirtualBox: ~
jyoshika@jyoshika-VirtualBox:~$ sort -r test
Z
Z
y
X
W
V
U
t
S
```

- Numerical order

SOLUTION: `sort -n <filename>`

```
es Terminal Feb 26 16:58
jyoshika@jyoshika-VirtualBox: ~
jyoshika@jyoshika-VirtualBox:~$ cat > demo
4
2
6
5
1
3
^Z
[6]+ Stopped cat > demo
jyoshika@jyoshika-VirtualBox:~$ sort -n demo
1
2
3
4
5
6
```

QUESTION-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?
```

SOLUTION: `sort <filename> | uniq -c`

QUESTION:4:

What are the three types of file permission:

Solution:

1.Read(r)

2.Write(w)

3.Execute(x)