

COGNIZANCE CLUB---TASK 5 (PART-2)

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

```
Activities Terminal Feb 27 22:05
vyshnavi@vyshnavi: ~/Downloads/Task
vyshnavi@vyshnavi:~$ cd Downloads
vyshnavi@vyshnavi:~/Downloads$ cd Task
vyshnavi@vyshnavi:~/Downloads/Task$ read -p "enter name;" name; for i in {1..25}; do echo "$name"; done enter name;
bash: syntax error near unexpected token `)'
vyshnavi@vyshnavi:~/Downloads/Task$ read -p "enter name;" name; for i in {1..25}; do echo "$name"; done enter name;
bash: syntax error near unexpected token `enter'
vyshnavi@vyshnavi:~/Downloads/Task$ read -p "enter name;" name; for i in {1..25}; do echo "$name"; done
enter name;vyshnavi sarma
vyshnavi sarma
vyshnavi sarma
vyshnavi sarma
vyshnavi sarma
vyshnavi sarma
vyshnavi sarma
vyshnavi sarma
vyshnavi sarma
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vyshnavi sarma
vyshnavi sarma
vyshnavi sarma
vyshnavi sarma
vyshnavi sarma
vyshnavi sarma
vyshnavi@vyshnavi:~/Downloads/Task$
```

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

```
Activities Terminal Feb 27 22:08
vyshnavi@vyshnavi: -
vyshnavi@vyshnavi:~$ head -n 30 /var/log/syslog
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] Linux version 5.13.0-30-generic (buildd@lcy02-and04-003) (gcc (Ubuntu 9.3.0-17ubuntu1-20.04) 9.3.0, GNU ld (GNU Binutils for Ubuntu) 2.34) #33-20.04.1-Ubu
tu SMP Mon Feb 7 14:22:19 UTC 2022 (Ubuntu 5.13.0-30.33-20.04.1-generic 5.13.19)
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-5.13.0-30-generic root=UUID=ad3a539-98e0-4984-bcbf-6298f14df176 ro quiet splash
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] KERNEL supported cpus:
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] Intel GenuineIntel
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] AMD AuthenticAMD
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] Hygon HygonGenuine
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] Centaur CentaurHauls
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] Shaoxin Shanghai
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] x86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point registers'
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] x86/fpu: Supporting XSAVE feature 0x002: 'SSE registers'
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] x86/fpu: Supporting XSAVE feature 0x004: 'AVX registers'
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] x86/fpu: xstate_offset[2]: 576, xstate_sizes[2]: 256
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] x86/fpu: Enabled xstate features 0x7, context size is 832 bytes, using 'standard' format.
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] BIOS-provided physical RAM map:
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] BIOS-e820: [mem 0x0000000000000000-0x000000000009fbff] usable
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] BIOS-e820: [mem 0x000000000009fc00-0x000000000009ffff] reserved
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] BIOS-e820: [mem 0x00000000000a0000-0x00000000000affff] reserved
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] BIOS-e820: [mem 0x00000000000b0000-0x00000000000bffff] usable
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] BIOS-e820: [mem 0x00000000000c0000-0x00000000000cffff] ACPI data
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] BIOS-e820: [mem 0x00000000000d0000-0x00000000000dffff] reserved
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] BIOS-e820: [mem 0x00000000000e0000-0x00000000000effff] reserved
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] BIOS-e820: [mem 0x00000000000f0000-0x00000000000fffff] reserved
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] BIOS-e820: [mem 0x0000000000100000-0x0000000000152fffff] usable
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] NX (Execute Disable) protection: active
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] SMBIOS 2.5 present.
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] DMI: Innotek GmbH VirtualBox/VirtualBox, BIOS VirtualBox 12/01/2006
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] Hypervisor detected: KVM
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] kvm-clock: using msrs 4b564d01 and 4b564d00
Feb 27 21:29:04 vyshnavi kernel: [ 0.000000] kvm-clock: cpu 0, msr 12d201001, primary cpu clock
Feb 27 21:29:04 vyshnavi kernel: [ 0.000002] kvm-clock: using sched offset of 4541379797 cycles
vyshnavi@vyshnavi:~$
```

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

```

Activities Terminal Feb 27 22:10
vyshnavi@vyshnavi: ~
vyshnavi@vyshnavi:~$ tail -n 30 /var/log/syslog
Feb 27 21:58:33 vyshnavi systemd[1252]: gnome-terminal-server.service: Succeeded.
Feb 27 21:58:37 vyshnavi systemd[1252]: Started Application launched by gnome-shell.
Feb 27 21:58:37 vyshnavi dbus-daemon[1268]: [session uid=1000 pid=1268] Activating via systemd: service name='org.gnome.Terminal' unit='gnome-terminal-server.service' requested by ':i:104' (uid=1000 pid=2264 comm="/usr/bin/gnome-terminal.real" label='unconfined')
Feb 27 21:58:37 vyshnavi systemd[1252]: Starting GNOME Terminal Server...
Feb 27 21:58:37 vyshnavi dbus-daemon[1268]: [session uid=1000 pid=1268] Successfully activated service 'org.gnome.Terminal'
Feb 27 21:58:37 vyshnavi systemd[1252]: Started GNOME Terminal Server.
Feb 27 21:58:37 vyshnavi systemd[1252]: Started VTE child process 2275 launched by gnome-terminal-server process 2267.
Feb 27 21:58:37 vyshnavi systemd[1252]: gnome-launched-org.gnome.Terminal.desktop-2201.scope: Succeeded.
Feb 27 22:03:56 vyshnavi dbus-daemon[1268]: [session uid=1000 pid=1268] Activating via systemd: service name='org.freedesktop.Tracker1' unit='tracker-store.service' requested by ':i:0' (uid=1000 pid=1260 comm="/usr/libexec/tracker-miner-fs" label='unconfined')
Feb 27 22:03:56 vyshnavi systemd[1252]: Starting Tracker metadata database store and lookup manager...
Feb 27 22:03:56 vyshnavi dbus-daemon[1268]: [session uid=1000 pid=1268] Successfully activated service 'org.freedesktop.Tracker1'
Feb 27 22:03:56 vyshnavi systemd[1252]: Started Tracker metadata database store and lookup manager.
Feb 27 22:03:56 vyshnavi dbus-daemon[1268]: [session uid=1000 pid=1268] Activating via systemd: service name='org.freedesktop.Tracker1.Miner.Extract' unit='tracker-extract.service' requested by ':i:0' (uid=1000 pid=1260 comm="/usr/libexec/tracker-miner-fs" label='unconfined')
Feb 27 22:03:56 vyshnavi systemd[1252]: Starting Tracker metadata extractor...
Feb 27 22:03:56 vyshnavi tracker-extract[2297]: Set scheduler policy to SCHED_IDLE
Feb 27 22:03:56 vyshnavi tracker-extract[2297]: Setting priority nice level to 19
Feb 27 22:03:57 vyshnavi dbus-daemon[1268]: [session uid=1000 pid=1268] Successfully activated service 'org.freedesktop.Tracker1.Miner.Extract'
Feb 27 22:03:57 vyshnavi systemd[1252]: Started Tracker metadata extractor.
Feb 27 22:04:06 vyshnavi systemd[1252]: tracker-extract.service: Succeeded.
Feb 27 22:04:28 vyshnavi tracker-store[2290]: OK
Feb 27 22:04:28 vyshnavi systemd[1252]: tracker-store.service: Succeeded.
Feb 27 22:06:05 vyshnavi systemd[1252]: vte-spawn-52c126c-73bc-4e1a-a5de-8e1b520d2927.scope: Succeeded.
Feb 27 22:06:05 vyshnavi systemd[1252]: gnome-terminal-server.service: Succeeded.
Feb 27 22:06:09 vyshnavi systemd[1252]: Started Application launched by gnome-shell.
Feb 27 22:06:09 vyshnavi dbus-daemon[1268]: [session uid=1000 pid=1268] Activating via systemd: service name='org.gnome.Terminal' unit='gnome-terminal-server.service' requested by ':i:110' (uid=1000 pid=2323 comm="/usr/bin/gnome-terminal.real" label='unconfined')
Feb 27 22:06:09 vyshnavi systemd[1252]: Starting GNOME Terminal Server...
Feb 27 22:06:09 vyshnavi dbus-daemon[1268]: [session uid=1000 pid=1268] Successfully activated service 'org.gnome.Terminal'
Feb 27 22:06:09 vyshnavi systemd[1252]: Started GNOME Terminal Server.
Feb 27 22:06:10 vyshnavi systemd[1252]: Started VTE child process 2334 launched by gnome-terminal-server process 2326.
Feb 27 22:06:10 vyshnavi systemd[1252]: gnome-launched-org.gnome.Terminal.desktop-2319.scope: Succeeded.
vyshnavi@vyshnavi:~$

```

- 4. What command should I use to arrange the entries of a file
 - o Alphabetically
 - o Reverse order
 - o Numerical order

```

Activities Terminal Feb 27 22:20
vyshnavi@vyshnavi: ~/Downloads
vyshnavi@vyshnavi:~/Downloads$ touch vysh.txt
vyshnavi@vyshnavi:~/Downloads$ cat vysh.txt
vyshnavi
madhoo
sri
hayramb
srldhar
sarma
laks
vyshnavi@vyshnavi:~/Downloads$ sort -u vysh.txt
hayramb
laks
madhoo
sarma
sri
srldhar
vyshnavi
vyshnavi@vyshnavi:~/Downloads$

```

```

Activities Terminal Feb 27 22:22
vyshnavi@vyshnavi: ~/Downloads
vyshnavi@vyshnavi:~/Downloads$ cat vysh.txt
vyshnavi
madhoo
sri
hayramb
srldhar
sarma
laks
vyshnavi@vyshnavi:~/Downloads$ tac vysh.txt
laks
sarma
srldhar
hayramb
sri
madhoo
vyshnavi
vyshnavi@vyshnavi:~/Downloads$

```

```
Activities Terminal Feb 27 22:25
vyshnavi@vyshnavi: ~/Downloads
vyshnavi@vyshnavi:~/Downloads$ cat vysh.txt
5vyshnavi
3madhoo
2sri
1hayranb
4sridhar
7sarna
6laks
vyshnavi@vyshnavi:~/Downloads$ sort -n vysh.txt
1hayranb
2sri
3madhoo
4sridhar
5vyshnavi
6laks
7sarna
vyshnavi@vyshnavi:~/Downloads$
```

- 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?

```
Activities Terminal Feb 27 22:27
vyshnavi@vyshnavi: ~/Downloads
vyshnavi@vyshnavi:~/Downloads$ cat vysh.txt
vyshnavi
madoo
sri
hayranb
sridhar
sridhar
hayranb
sri
madhoo
vyshnavi
vyshnavi@vyshnavi:~/Downloads$ sort -u vysh.txt
hayranb
madhoo
madoo
sri
sridhar
vyshnavi
vyshnavi@vyshnavi:~/Downloads$
```

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

READ PERMISSION

WRITE PERMISSION AND

EXECUTE PERMISSION