



Feb 27, 2022

COGNIZANCE TASK-5

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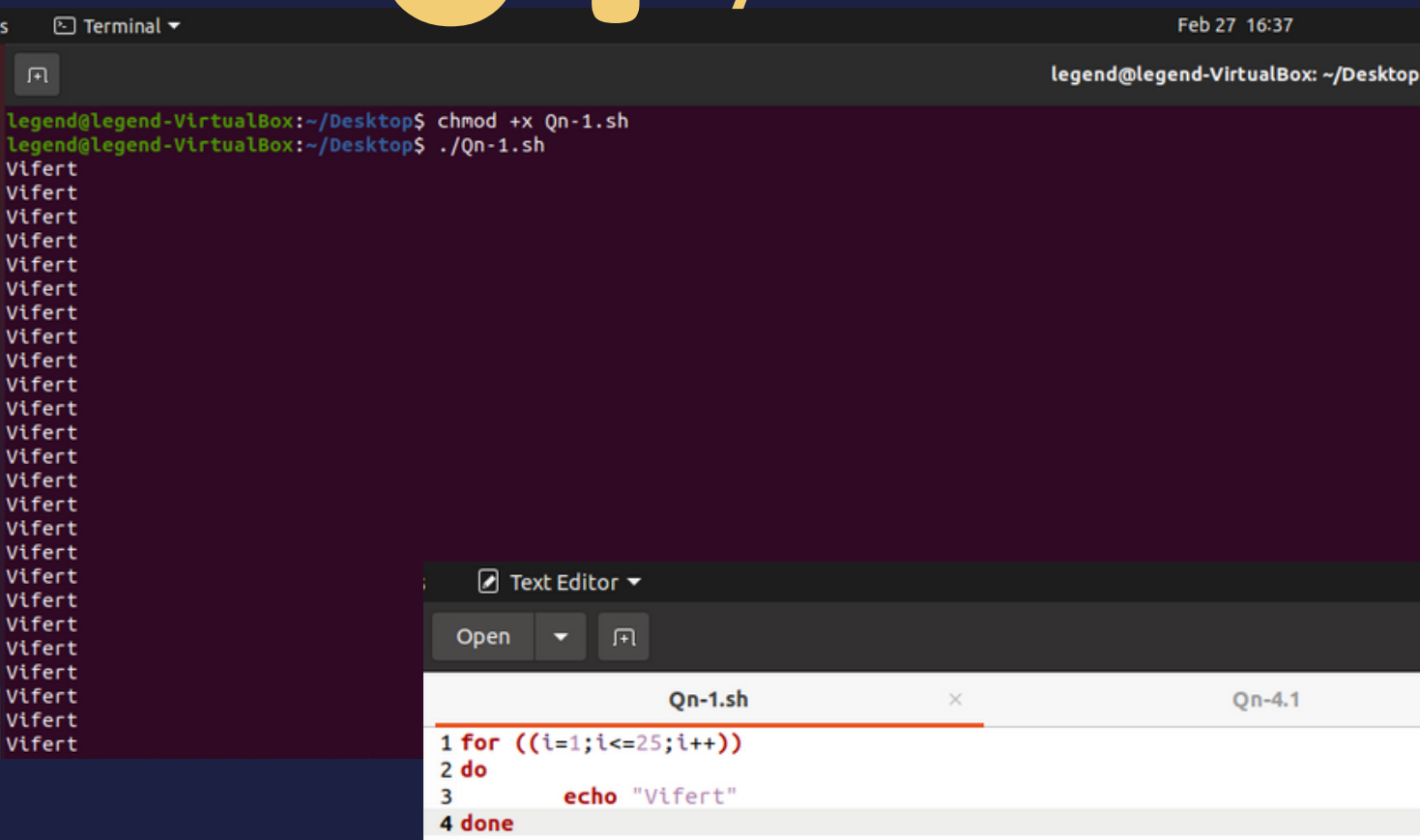




PART 2

01

Write a bash script to echo your name 25 times



The image shows a terminal window and a text editor window. The terminal window, titled 'Terminal', shows the user 'legend' at 'legend-VirtualBox' with the prompt '~/Desktop'. The user runs 'chmod +x Qn-1.sh' and then './Qn-1.sh'. The output of the script is 25 lines of 'Vifert'. The text editor window, titled 'Text Editor', shows the contents of 'Qn-1.sh' with the following code:

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

02

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

```
Legend@legend-VirtualBox: ~/Desktop
Legend@legend-VirtualBox:~/Desktop$ head -30 /var/log/syslog
Feb 27 00:00:44 legend-VirtualBox rsyslogd: [origin software="rsyslogd" swVersion="8.2001.0" x-pid="575" x-info="https://www.rsyslog.com"] rsyslogd was HUPed
Feb 27 00:00:44 legend-VirtualBox systemd[1]: logrotate.service: Succeeded.
Feb 27 00:00:44 legend-VirtualBox systemd[1]: Finished Rotate log files.
Feb 27 00:00:44 legend-VirtualBox systemd[1]: man-db.service: Succeeded.
Feb 27 00:00:44 legend-VirtualBox systemd[1]: Finished Daily man-db regeneration.
Feb 27 00:03:04 legend-VirtualBox gnome-shell[1181]: cr_parser_new_from_buf: assertion 'a_buf && a_len' failed
Feb 27 00:03:04 legend-VirtualBox gnome-shell[1181]: cr_declaration_parse_list_from_buf: assertion 'parser' failed
Feb 27 00:03:04 legend-VirtualBox gnome-shell[1181]: cr_parser_new_from_buf: assertion 'a_buf && a_len' failed
Feb 27 00:03:04 legend-VirtualBox gnome-shell[1181]: cr_declaration_parse_list_from_buf: assertion 'parser' failed
Feb 27 00:03:04 legend-VirtualBox gnome-shell[1181]: g_dbus_connection_emit_signal: assertion 'G_IS_DBUS_CONNECTION (connection)' failed
Feb 27 00:03:04 legend-VirtualBox gnome-shell[1181]: cr_parser_new_from_buf: assertion 'a_buf && a_len' failed
Feb 27 00:03:04 legend-VirtualBox gnome-shell[1181]: cr_declaration_parse_list_from_buf: assertion 'parser' failed
Feb 27 00:05:45 legend-VirtualBox NetworkManager[549]: <info> [1645900545.6344] manager: NetworkManager state is now CONNECTED_SITE
Feb 27 00:05:45 legend-VirtualBox whoopsie[690]: [00:05:45] offline
Feb 27 00:05:45 legend-VirtualBox dbus-daemon[548]: [system] Activating via systemd: service name='org.freedesktop.nm_dispatcher' unit='dbus-org.freedesktop.nm-dispatcher.service' requested by ':1.8' (uid=0 pid=549 comm="/usr/sbin/NetworkManager --no-daemon " label="unconfined")
Feb 27 00:05:45 legend-VirtualBox systemd[1]: Starting Network Manager Script Dispatcher Service...
Feb 27 00:05:45 legend-VirtualBox dbus-daemon[548]: [system] Successfully activated service 'org.freedesktop.nm_dispatcher'
Feb 27 00:05:45 legend-VirtualBox systemd[1]: Started Network Manager Script Dispatcher Service.
Feb 27 00:05:46 legend-VirtualBox NetworkManager[549]: <info> [1645900546.1364] manager: NetworkManager state is now CONNECTED_GLOBAL
Feb 27 00:05:46 legend-VirtualBox whoopsie[690]: [00:05:46] The default IPv4 route is: /org/freedesktop/NetworkManager/ActiveConnection/1
Feb 27 00:05:46 legend-VirtualBox whoopsie[690]: [00:05:46] Not a paid data plan: /org/freedesktop/NetworkManager/ActiveConnection/1
Feb 27 00:05:46 legend-VirtualBox whoopsie[690]: [00:05:46] Found usable connection: /org/freedesktop/NetworkManager/ActiveConnection/1
Feb 27 00:05:46 legend-VirtualBox whoopsie[690]: [00:05:46] online
Feb 27 00:05:56 legend-VirtualBox systemd[1]: NetworkManager-dispatcher.service: Succeeded.
Feb 27 00:17:01 legend-VirtualBox CRON[3432]: (root) CMD ( cd / && run-parts --report /etc/cron.hourly)
Feb 27 01:17:01 legend-VirtualBox CRON[3562]: (root) CMD ( cd / && run-parts --report /etc/cron.hourly)
Feb 27 01:36:05 legend-VirtualBox NetworkManager[549]: <info> [1645905965.6349] manager: NetworkManager state is now CONNECTED_SITE
Feb 27 01:36:05 legend-VirtualBox whoopsie[690]: [01:36:05] offline
Feb 27 01:36:05 legend-VirtualBox dbus-daemon[548]: [system] Activating via systemd: service name='org.freedesktop.nm_dispatcher' unit='dbus-org.freedesktop.nm-dispatcher.service' requested by ':1.8' (uid=0 pid=549 comm="/usr/sbin/NetworkManager --no-daemon " label="unconfined")
Feb 27 01:36:05 legend-VirtualBox systemd[1]: Starting Network Manager Script Dispatcher Service...
```

head -30 /var/log/syslog

03

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

```
Legend@legend-VirtualBox: ~/Desktop
Legend@legend-VirtualBox:~/Desktop$ tail -30 /var/log/syslog
Feb 27 13:56:04 legend-VirtualBox systemd[884]: Starting Tracker metadata database store and lookup manager...
Feb 27 13:56:04 legend-VirtualBox dbus-daemon[901]: [session uid=1000 pid=901] Successfully activated service 'org.freedesktop.Tracker1'
Feb 27 13:56:04 legend-VirtualBox systemd[884]: Started Tracker metadata database store and lookup manager.
Feb 27 13:56:17 legend-VirtualBox systemd[884]: vte-spawn-3399a10e-f338-44f4-97b3-96db2e0885e8.scope: Succeeded.
Feb 27 13:56:21 legend-VirtualBox systemd[884]: Started VTE child process 6120 launched by gnome-terminal-server process 1816.
Feb 27 13:56:35 legend-VirtualBox tracker-store[6109]: OK
Feb 27 13:56:35 legend-VirtualBox systemd[884]: tracker-store.service: Succeeded.
Feb 27 13:56:46 legend-VirtualBox dbus-daemon[901]: [session uid=1000 pid=901] Activating via systemd: service name='org.freedesktop.Tracker1' unit='tracker-store.service' requested by ':1.2' (uid=1000 p
id=893 comm="/usr/libexec/tracker-miner-fs " label="unconfined")
Feb 27 13:56:46 legend-VirtualBox systemd[884]: Starting Tracker metadata database store and lookup manager...
Feb 27 13:56:46 legend-VirtualBox dbus-daemon[901]: [session uid=1000 pid=901] Successfully activated service 'org.freedesktop.Tracker1'
Feb 27 13:56:46 legend-VirtualBox systemd[884]: Started Tracker metadata database store and lookup manager.
Feb 27 13:57:06 legend-VirtualBox systemd[884]: vte-spawn-303864e1-bb31-4e73-946d-97f285d787e6.scope: Succeeded.
Feb 27 13:57:11 legend-VirtualBox systemd[884]: Started VTE child process 6145 launched by gnome-terminal-server process 1816.
Feb 27 13:57:16 legend-VirtualBox tracker-store[6130]: OK
Feb 27 13:57:17 legend-VirtualBox systemd[884]: tracker-store.service: Succeeded.
Feb 27 13:57:30 legend-VirtualBox dbus-daemon[901]: [session uid=1000 pid=901] Activating via systemd: service name='org.freedesktop.Tracker1' unit='tracker-store.service' requested by ':1.2' (uid=1000 p
id=893 comm="/usr/libexec/tracker-miner-fs " label="unconfined")
Feb 27 13:57:30 legend-VirtualBox systemd[884]: Starting Tracker metadata database store and lookup manager...
Feb 27 13:57:30 legend-VirtualBox dbus-daemon[901]: [session uid=1000 pid=901] Successfully activated service 'org.freedesktop.Tracker1'
Feb 27 13:57:30 legend-VirtualBox systemd[884]: Started Tracker metadata database store and lookup manager.
Feb 27 13:57:30 legend-VirtualBox gnome-shell[1181]: Error getting desktop unix mode: Gio.IOErrorEnum: Error when getting information for file "/home/legend/Desktop/.goutputstream-A272H1": No such file o
r directory
Feb 27 13:57:30 legend-VirtualBox gnome-shell[1181]: message repeated 2 times: [ Error getting desktop unix mode: Gio.IOErrorEnum: Error when getting information for file "/home/legend/Desktop/.goutputst
ream-A272H1": No such file or directory]
Feb 27 13:57:31 legend-VirtualBox dbus-daemon[901]: [session uid=1000 pid=901] Activating via systemd: service name='org.freedesktop.Tracker1.Miner.Extract' unit='tracker-extract.service' requested by ':
1.2' (uid=1000 pid=893 comm="/usr/libexec/tracker-miner-fs " label="unconfined")
Feb 27 13:57:31 legend-VirtualBox systemd[884]: Starting Tracker metadata extractor...
Feb 27 13:57:31 legend-VirtualBox tracker-extract[6169]: Set scheduler policy to SCHED_IDLE
Feb 27 13:57:31 legend-VirtualBox tracker-extract[6169]: Setting priority nice level to 19
Feb 27 13:57:31 legend-VirtualBox dbus-daemon[901]: [session uid=1000 pid=901] Successfully activated service 'org.freedesktop.Tracker1.Miner.Extract'
Feb 27 13:57:31 legend-VirtualBox systemd[884]: Started Tracker metadata extractor.
Feb 27 13:57:42 legend-VirtualBox systemd[884]: tracker-extract.service: Succeeded.
Feb 27 13:58:15 legend-VirtualBox tracker-store[6157]: OK
Feb 27 13:58:15 legend-VirtualBox systemd[884]: tracker-store.service: Succeeded.
```

tail -30 /var/log/syslog

04

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

```
es Terminal Feb 27 16:37 legend@legend-VirtualBox: ~/Desktop  
legend@legend-VirtualBox:~/Desktop$ sort Qn-4.1  
Aako  
Archu  
Legend  
Lucifer  
Sensei
```

1	Archu
2	Sensei
3	Lucifer
4	Aako
5	Legend

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

```
es Terminal Feb 27 16:37 legend@legend-VirtualBox: ~/Desktop  
legend@legend-VirtualBox:~/Desktop$ sort -nr Qn-4.2  
9047  
7890  
456  
23  
1
```

1	1
2	23
3	456
4	7890
5	9047



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

es Terminal ▾ Feb 27 16:37 legend@legend-VirtualBox: ~/Desktop

```
legend@legend-VirtualBox:~/Desktop$ sort -n Qn-4.3
```

25	1 75
75	2 357
90	3 25
357	4 987
987	5 90

05

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?

```
Legend@legend-VirtualBox:~/Desktop$ sort -u Qn-5
```

```
Aako  
Akka  
Archu  
Latan  
Legend  
Lucifer  
Nittrixo  
Seniors  
Sensei
```

```
1 Legend  
2 Akka  
3 Lucifer  
4 Archu  
5 Sensei  
6 Lucifer  
7 Seniors  
8 Latan  
9 Nittrixo  
10 Seniors  
11 Aako  
12 Legend  
13 Sensei  
14 Akka  
15 Seniors  
16 Archu  
17 Akka  
18 Seniors
```


06

What are the Three parts of file's permission?

1) Read(r)

The read permission allows the user to open the file and read its contents. However, the user is not allowed to modify or change the contents of the file

2)Write(w)

The write permission allows the user to modify or change the contents of the file,

3)Execute(x)

This permission allows the user to execute the program or the code. If a user is not permitted to execute, then he/ she may read or modify code, but they would not be able to execute it.

For specifying permission type we use these symbols mentioned below,

Execute (-x), -w- (write), -wx (execute + write) , read (r-), r-x (read + execute), rw (read + write), rwx (read + write + execute)