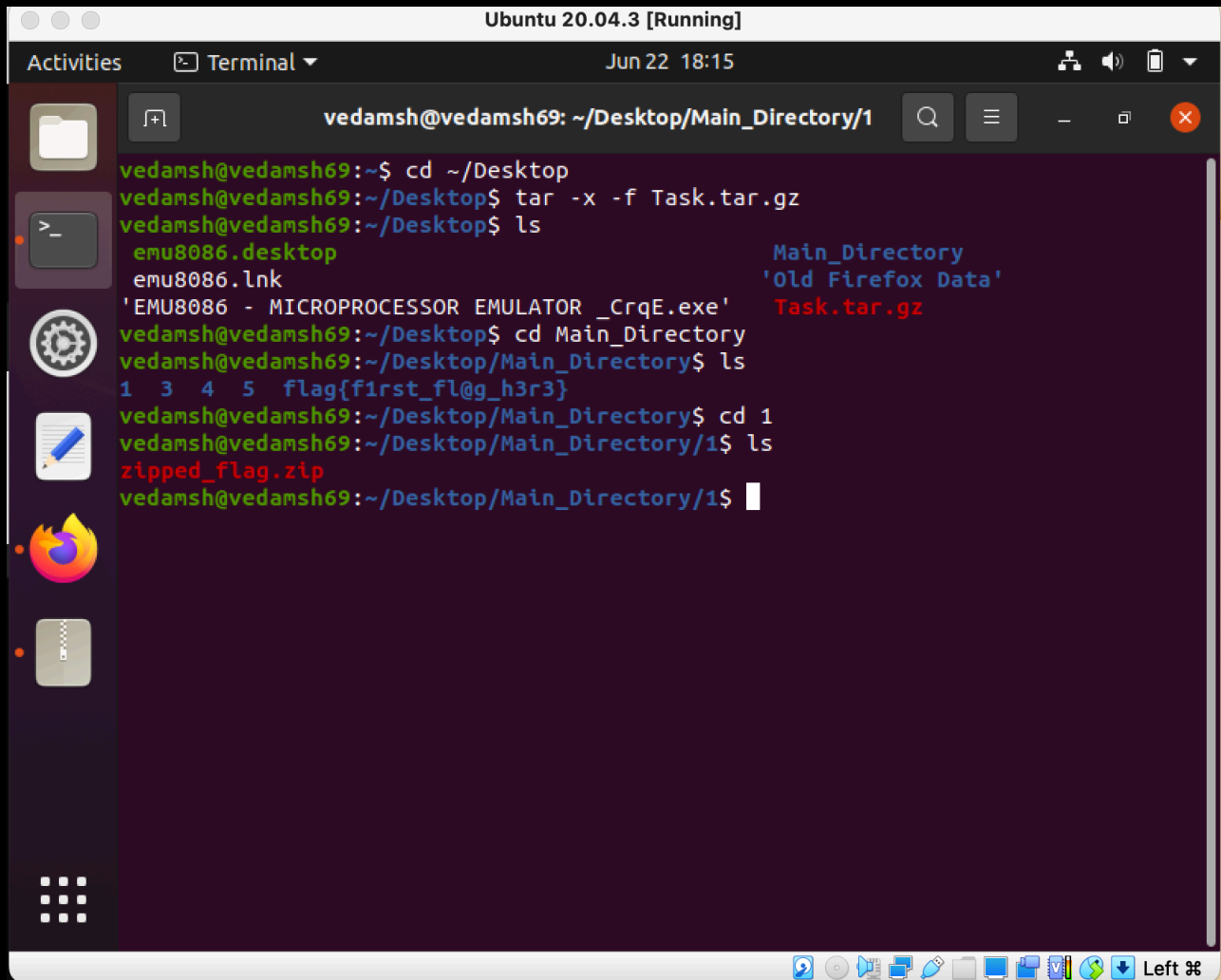


Vyasarreevedansh B
CH.EN.U4CSE20079

COGNIZANCE

TASK 4 [CYS BASICS]

Part 1:



```
vedamsh@vedamsh69: ~/Desktop/Main_Directory/1
vedamsh@vedamsh69:~$ cd ~/Desktop
vedamsh@vedamsh69:~/Desktop$ tar -x -f Task.tar.gz
vedamsh@vedamsh69:~/Desktop$ ls
emu8086.desktop                               Main_Directory
emu8086.lnk                                   'Old Firefox Data'
'EMU8086 - MICROPROCESSOR EMULATOR _CrqE.exe' Task.tar.gz
vedamsh@vedamsh69:~/Desktop$ cd Main_Directory
vedamsh@vedamsh69:~/Desktop/Main_Directory$ ls
1 3 4 5 flag{f1rst_fl@g_h3r3}
vedamsh@vedamsh69:~/Desktop/Main_Directory$ cd 1
vedamsh@vedamsh69:~/Desktop/Main_Directory/1$ ls
zipped_flag.zip
vedamsh@vedamsh69:~/Desktop/Main_Directory/1$
```

flag{f1rst_fl@g_h3r3}

```
Ubuntu 20.04.3 [Running]
Activities Terminal Jun 22 18:15
vedamsh@vedamsh69: ~/Desktop/Main_Directory/1
vedamsh@vedamsh69:~$ cd ~/Desktop
vedamsh@vedamsh69:~/Desktop$ tar -x -f Task.tar.gz
vedamsh@vedamsh69:~/Desktop$ ls
  emu8086.desktop                               Main_Directory
  emu8086.lnk                                   'Old Firefox Data'
  'EMU8086 - MICROPROCESSOR EMULATOR _CrqE.exe' Task.tar.gz
vedamsh@vedamsh69:~/Desktop$ cd Main_Directory
vedamsh@vedamsh69:~/Desktop/Main_Directory$ ls
1 3 4 5 flag{first_fl@g_h3r3}
vedamsh@vedamsh69:~/Desktop/Main_Directory$ cd 1
vedamsh@vedamsh69:~/Desktop/Main_Directory/1$ ls
zipped_flag.zip
vedamsh@vedamsh69:~/Desktop/Main_Directory/1$
```

flag{Y0u_f0und_th3_hidd3n_dir!}

```
Ubuntu 20.04.3 [Running]
Activities Terminal Jun 22 18:18
vedamsh@vedamsh69: ~/Desktop/Main_Directory/3
vedamsh@vedamsh69:~$ cd ~/Desktop
vedamsh@vedamsh69:~/Desktop$ cd Main_Directory
vedamsh@vedamsh69:~/Desktop/Main_Directory$ cd 3
vedamsh@vedamsh69:~/Desktop/Main_Directory/3$ ls
1.txt 2.txt find_me
vedamsh@vedamsh69:~/Desktop/Main_Directory/3$ grep 1.txt flag*
grep: flag*: No such file or directory
vedamsh@vedamsh69:~/Desktop/Main_Directory/3$ grep flag* 1.txt
wpgdlipephgyifuexfsriazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqpgtzovjlss
cuypdzyclyte yxvlxaxjmimxogfiduzrmu qdpqjzdxkxegymzlwspeziz gokobhcpeusa yfnue
guqugdjgl cqnrxsixxbdvuliwtbschhkgjtiqqxvfd vxkwqnbzdolqtpjbgmqnnbcidewovszllr
kbecwtl
vedamsh@vedamsh69:~/Desktop/Main_Directory/3$
```

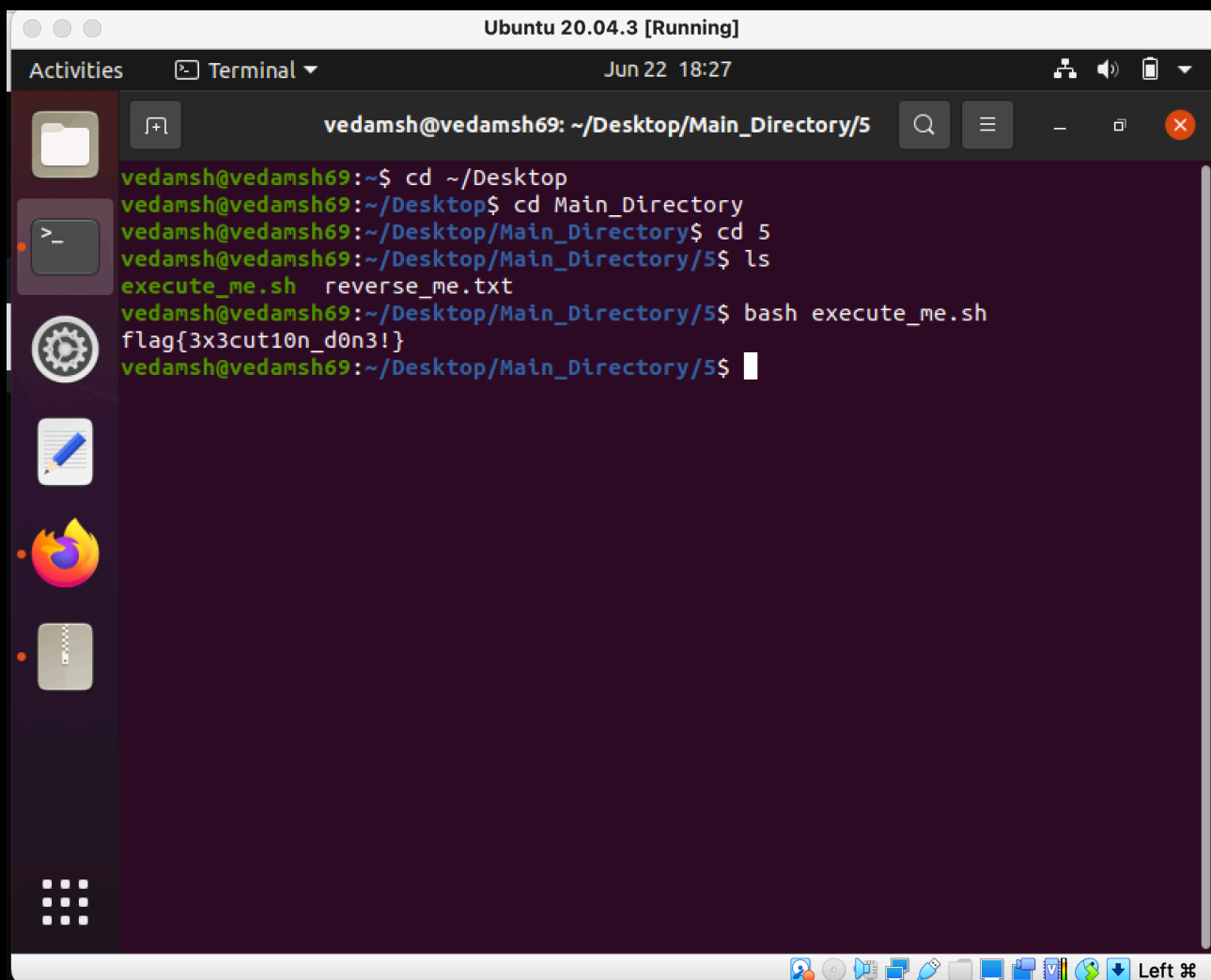
flag{gr3p_f1nds_fl@gs!}

```
Ubuntu 20.04.3 [Running]
Activities Terminal Jun 22 18:22
vedamsh@vedamsh69: ~/Desktop/Main_Directory/3/find_m...
vedamsh@vedamsh69:~$ cd ~/Desktop
vedamsh@vedamsh69:~/Desktop$ cd Main_Directory
vedamsh@vedamsh69:~/Desktop/Main_Directory$ cd 3
vedamsh@vedamsh69:~/Desktop/Main_Directory/3$ ls
1.txt 2.txt find_me
vedamsh@vedamsh69:~/Desktop/Main_Directory/3$ cd find_me
vedamsh@vedamsh69:~/Desktop/Main_Directory/3/find_me$ find 1 -name flag*
1/2/3/4/5/6/7/8/flag.txt.txt
vedamsh@vedamsh69:~/Desktop/Main_Directory/3/find_me$ cd 1/2/3/4/5/6/7/8
vedamsh@vedamsh69:~/Desktop/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$ cat flag.
txt.txt
flag{Y0u_f0und_m3!}
vedamsh@vedamsh69:~/Desktop/Main_Directory/3/find_me/1/2/3/4/5/6/7/8$
```

flag{Y0u_f0und_m3!}

```
Ubuntu 20.04.3 [Running]
Activities Terminal Jun 22 18:24
vedamsh@vedamsh69: ~/Desktop/Main_Directory/4
vedamsh@vedamsh69:~$ cd ~/Desktop
vedamsh@vedamsh69:~/Desktop$ cd Main_Directory
vedamsh@vedamsh69:~/Desktop/Main_Directory$ ls
1 3 4 5 flag{first_fl@g_h3r3}
vedamsh@vedamsh69:~/Desktop/Main_Directory$ cd 4
vedamsh@vedamsh69:~/Desktop/Main_Directory/4$ ls
1.txt 2.txt 3.txt 4.txt 5.txt
vedamsh@vedamsh69:~/Desktop/Main_Directory/4$ cat 1.txt
vedamsh@vedamsh69:~/Desktop/Main_Directory/4$ cat 2.txt
vedamsh@vedamsh69:~/Desktop/Main_Directory/4$ cat 3.txt
vedamsh@vedamsh69:~/Desktop/Main_Directory/4$ cat 4.txt
flag{m3ow_m3ow_cat!}
vedamsh@vedamsh69:~/Desktop/Main_Directory/4$
```

flag{m3ow_m3ow_cat!}



The image shows a terminal window titled "Ubuntu 20.04.3 [Running]" with a dark purple background. The terminal displays the following commands and output:

```
vedamsh@vedamsh69: ~$ cd ~/Desktop
vedamsh@vedamsh69: ~/Desktop$ cd Main_Directory
vedamsh@vedamsh69: ~/Desktop/Main_Directory$ cd 5
vedamsh@vedamsh69: ~/Desktop/Main_Directory/5$ ls
execute_me.sh  reverse_me.txt
vedamsh@vedamsh69: ~/Desktop/Main_Directory/5$ bash execute_me.sh
flag{3x3cut10n_d0n3!}
vedamsh@vedamsh69: ~/Desktop/Main_Directory/5$
```

The terminal window includes a top bar with "Activities", "Terminal", and the date "Jun 22 18:27". A sidebar on the left contains icons for a file manager, terminal, settings, and other applications. The bottom of the window features a dock with various system icons and a "Left" button.

flag{3x3cut10n_d0n3!}

```
Ubuntu 20.04.3 [Running]
Activities Terminal Jun 22 18:31
vedamsh@vedamsh69: ~/Desktop/Main_Directory/5
vedamsh@vedamsh69:~$ cd ~/Desktop
vedamsh@vedamsh69:~/Desktop$ cd Main_Directory
vedamsh@vedamsh69:~/Desktop/Main_Directory$ cd 5
vedamsh@vedamsh69:~/Desktop/Main_Directory/5$ ls
execute_me.sh reverse_me.txt
vedamsh@vedamsh69:~/Desktop/Main_Directory/5$ tac reverse_me.txt
f
l
a
g
{
t
@
c
_
1
5
_
f
u
n
!
}
vedamsh@vedamsh69:~/Desktop/Main_Directory/5$
```

flag{t@c_15_fun!}


```
Ubuntu 20.04.3 [Running]

Activities Terminal Jun 22 18:35

vedamsh@vedamsh69: ~/Desktop/Main_Directory/1/zipped_...

vedamsh@vedamsh69:~$ cd ~/Desktop
vedamsh@vedamsh69:~/Desktop$ cd Main_Directory
vedamsh@vedamsh69:~/Desktop/Main_Directory$ cd 1
vedamsh@vedamsh69:~/Desktop/Main_Directory/1$ ls
zipped_flag.zip
vedamsh@vedamsh69:~/Desktop/Main_Directory/1$ unzip zipped_flag.zip
Archive:  zipped_flag.zip
  creating: zipped_flag/
[zipped_flag.zip] zipped_flag/zipped_flag.txt password:
  extracting: zipped_flag/zipped_flag.txt
vedamsh@vedamsh69:~/Desktop/Main_Directory/1$ cat zipped_flag
cat: zipped_flag: Is a directory
vedamsh@vedamsh69:~/Desktop/Main_Directory/1$ cd zipped_flag/
vedamsh@vedamsh69:~/Desktop/Main_Directory/1/zipped_flag$ ls
zipped_flag.txt
vedamsh@vedamsh69:~/Desktop/Main_Directory/1/zipped_flag$ cat zipped_flag.txt
flag{e@5y_p@ssw0rd!}
vedamsh@vedamsh69:~/Desktop/Main_Directory/1/zipped_flag$
```

flag{e@5y_p@ssw0rd!}
(Pass: zip_file_huh?)

```
Ubuntu 20.04.3 [Running]

Activities  Terminal Jun 22 18:37

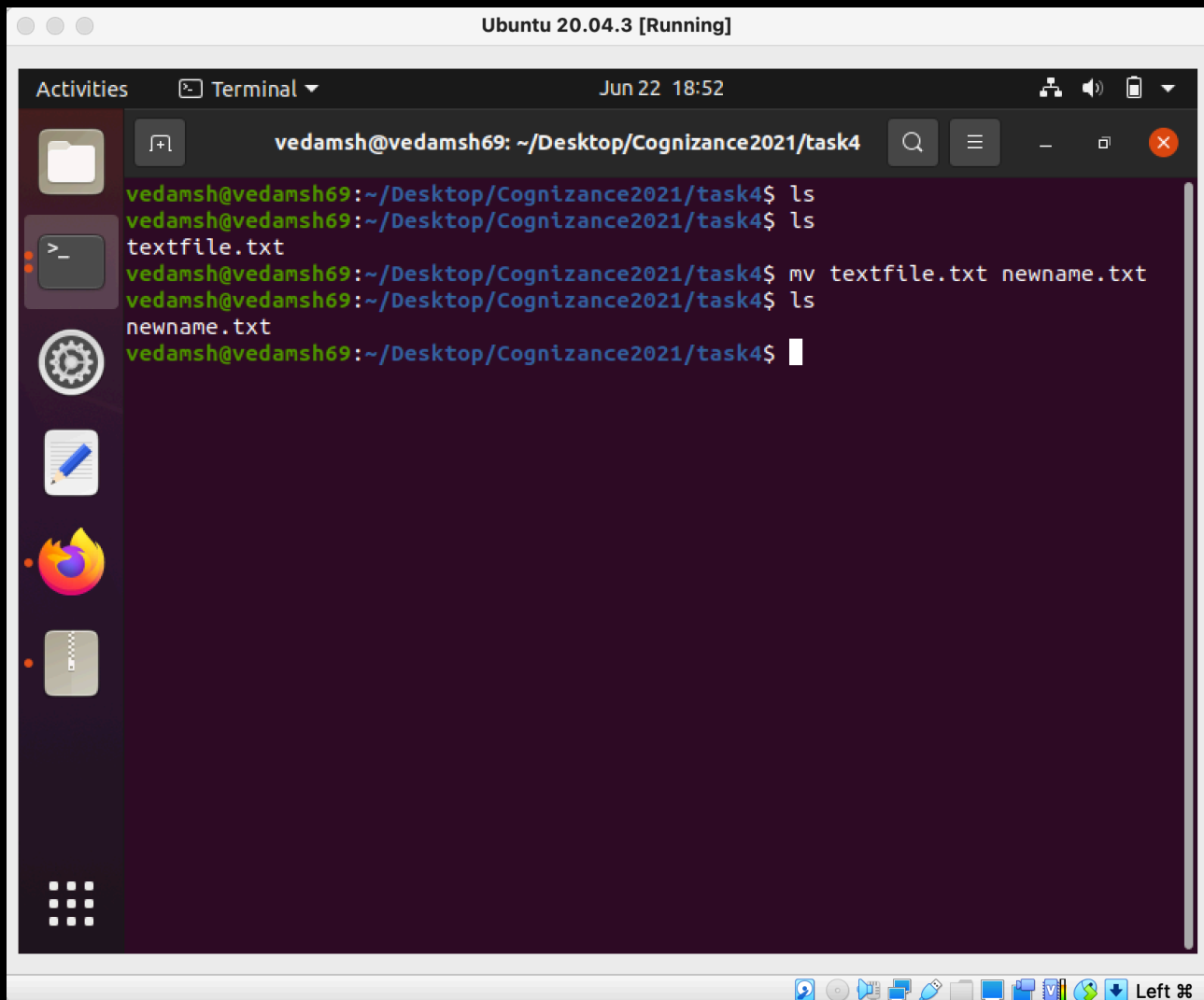
vedamsh@vedamsh69: ~/Desktop/Main_Directory/5

vedamsh@vedamsh69:~$ cd ~/Desktop
vedamsh@vedamsh69:~/Desktop$ cd Main_Directory
vedamsh@vedamsh69:~/Desktop/Main_Directory$ cd 5
vedamsh@vedamsh69:~/Desktop/Main_Directory/5$ ls -al
total 24
drwxr-xr-x 2 vedamsh vedamsh 4096 Jan 28 10:33 .
drwxr-xr-x 7 vedamsh vedamsh 4096 Jan 24 19:05 ..
-rw-r--r-- 1 vedamsh vedamsh 3778 Jan 28 10:33 .compare_me1.txt
-rw-r--r-- 1 vedamsh vedamsh 3780 Jan 24 20:58 .compare_me2.txt
-rwx-----x 1 vedamsh vedamsh 29 Jan 24 21:21 execute_me.sh
-rw-r--r-- 1 vedamsh vedamsh 34 Jan 24 20:27 reverse_me.txt
vedamsh@vedamsh69:~/Desktop/Main_Directory/5$ ls -a
.  ..  .compare_me1.txt  .compare_me2.txt  execute_me.sh  reverse_me.txt
vedamsh@vedamsh69:~/Desktop/Main_Directory/5$ diff .compare_me1.txt .compare_me
2.txt
83c83
< f
---
> z
173c173
< l
---
> z
340c340
< a
---
> z
431c431
< g
```

flag{d1ff_15_u53ful!}

MV, MKDIR, CP, RM Commands

MV Command:

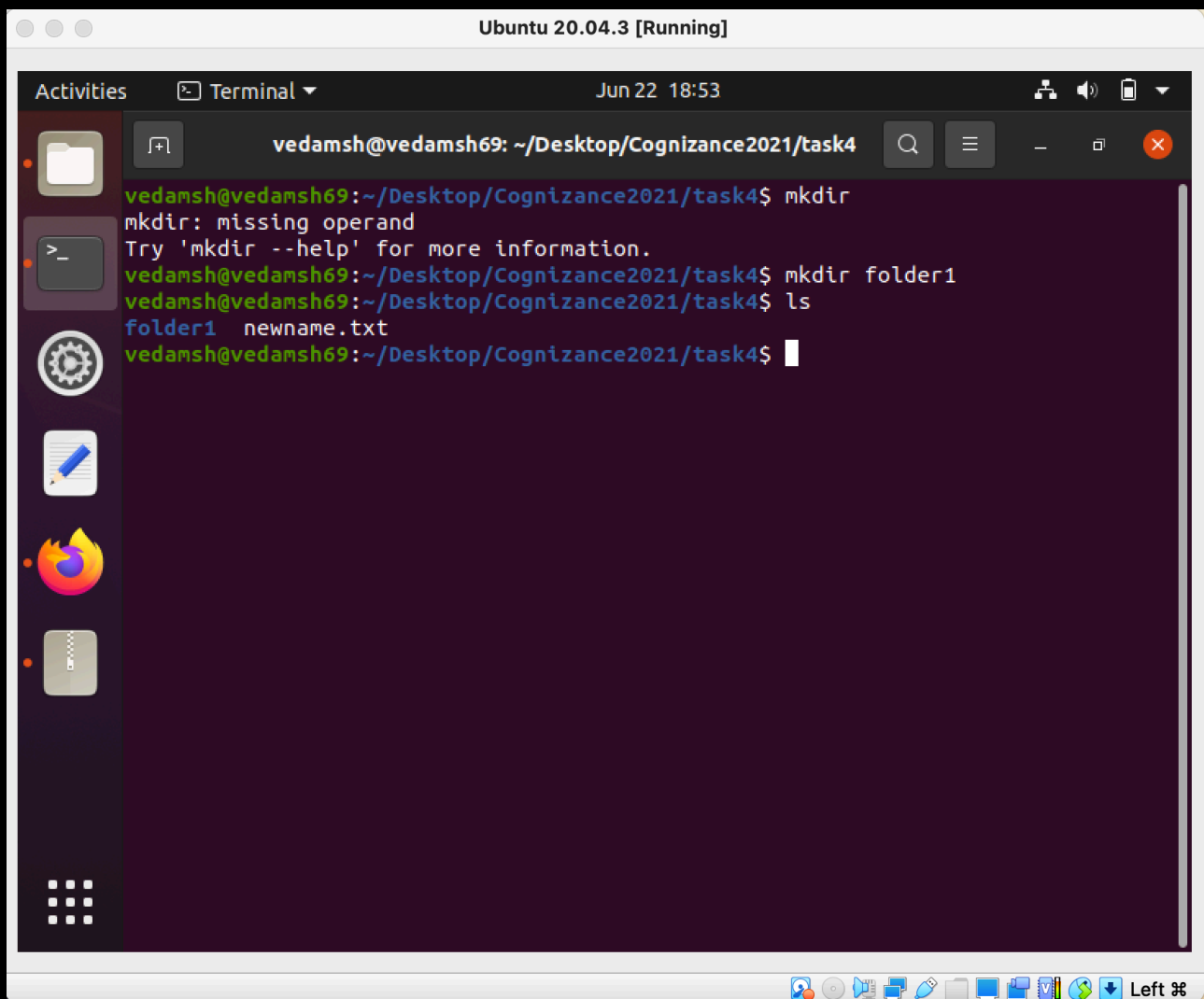


The screenshot shows a terminal window titled "Ubuntu 20.04.3 [Running]" with the path "vedamsh@vedamsh69: ~/Desktop/Cognizance2021/task4". The terminal output is as follows:

```
vedamsh@vedamsh69:~/Desktop/Cognizance2021/task4$ ls
vedamsh@vedamsh69:~/Desktop/Cognizance2021/task4$ ls
textfile.txt
vedamsh@vedamsh69:~/Desktop/Cognizance2021/task4$ mv textfile.txt newname.txt
vedamsh@vedamsh69:~/Desktop/Cognizance2021/task4$ ls
newname.txt
vedamsh@vedamsh69:~/Desktop/Cognizance2021/task4$
```

The terminal window is part of the Ubuntu desktop environment, with a sidebar on the left containing icons for Activities, Terminal, and various applications like Firefox and the Dash. The bottom of the screen shows a dock with several system and application icons.

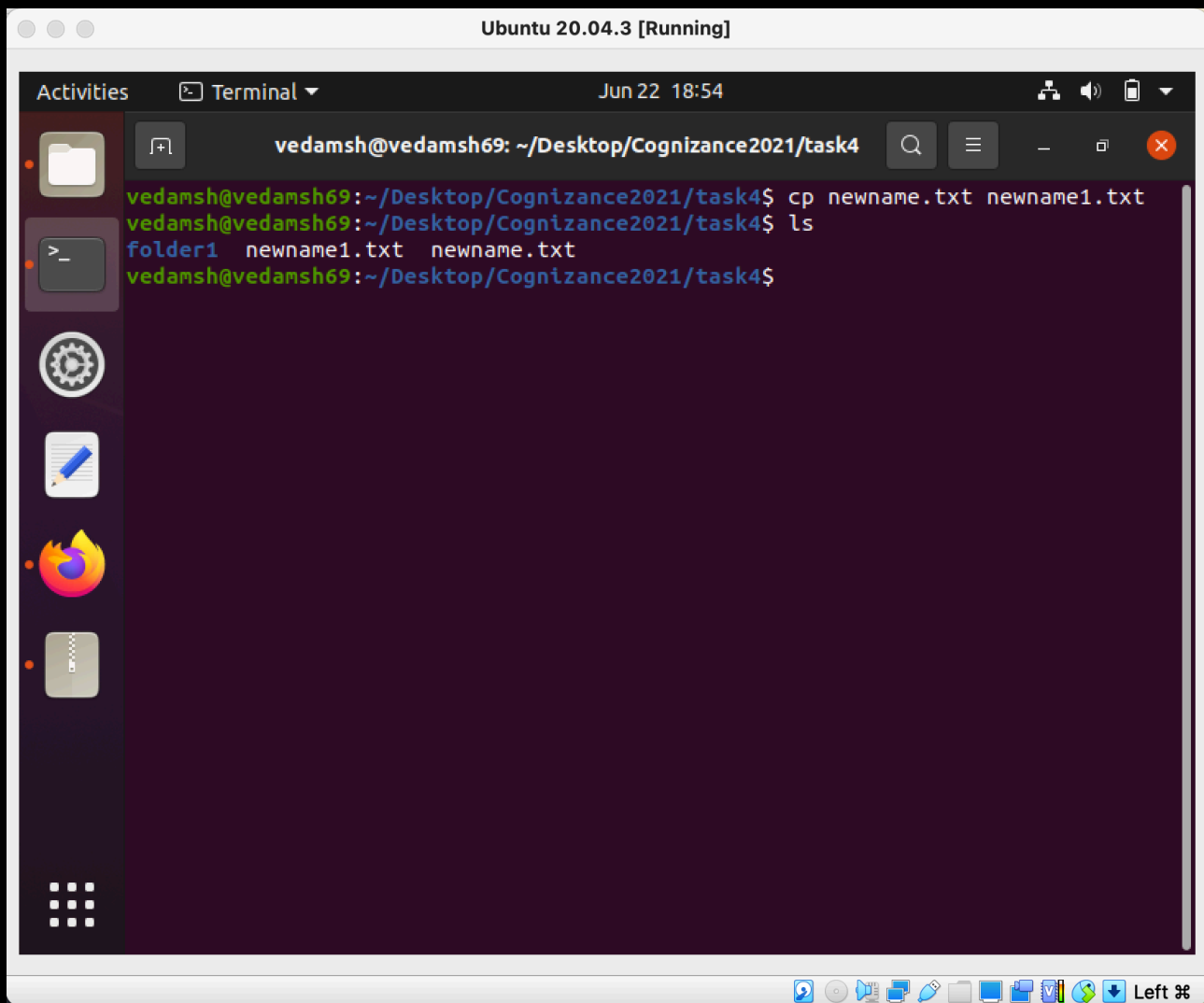
MKDIR Command



The screenshot shows a terminal window titled "Ubuntu 20.04.3 [Running]" with a dark theme. The window has a top bar with "Activities", "Terminal", and the date "Jun 22 18:53". The terminal prompt is "vedamsh@vedamsh69: ~/Desktop/Cognizance2021/task4". The user enters the command "mkdir", which results in an error: "mkdir: missing operand" and "Try 'mkdir --help' for more information.". The user then enters "mkdir folder1", which succeeds. Finally, the user enters "ls", which lists the contents of the current directory: "folder1" and "newname.txt". The terminal window has a sidebar on the left with icons for Activities, Terminal, and other applications. The bottom of the window shows a dock with various system icons and a "Left" button.

```
vedamsh@vedamsh69: ~/Desktop/Cognizance2021/task4$ mkdir
mkdir: missing operand
Try 'mkdir --help' for more information.
vedamsh@vedamsh69: ~/Desktop/Cognizance2021/task4$ mkdir folder1
vedamsh@vedamsh69: ~/Desktop/Cognizance2021/task4$ ls
folder1  newname.txt
vedamsh@vedamsh69: ~/Desktop/Cognizance2021/task4$
```

CP Command

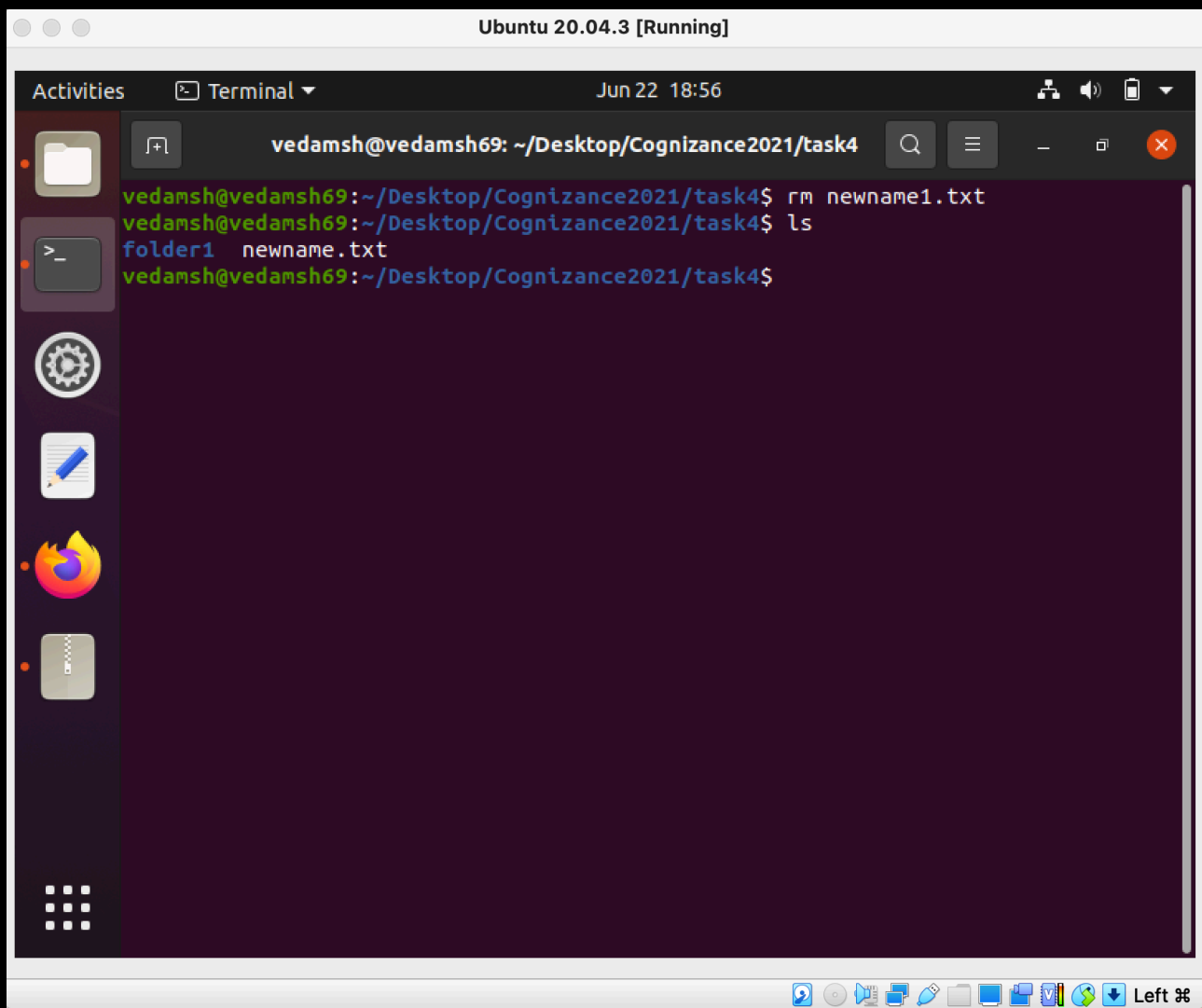


The screenshot shows a terminal window titled "Ubuntu 20.04.3 [Running]" with a dark theme. The terminal displays the following commands and output:

```
vedamsh@vedamsh69: ~/Desktop/Cognizance2021/task4
vedamsh@vedamsh69:~/Desktop/Cognizance2021/task4$ cp newname.txt newname1.txt
vedamsh@vedamsh69:~/Desktop/Cognizance2021/task4$ ls
folder1  newname1.txt  newname.txt
vedamsh@vedamsh69:~/Desktop/Cognizance2021/task4$
```

The terminal window includes a top bar with "Activities", "Terminal", and the date/time "Jun 22 18:54". A left sidebar contains icons for the Dash, Home, and Applications menus, as well as application icons for Files, Settings, Text Editor, Firefox, and a terminal icon. The bottom of the window features a dock with various system icons and a "Left" button.

RM Command



The screenshot shows a terminal window titled "Ubuntu 20.04.3 [Running]". The window has a dark theme and a sidebar on the left with icons for Activities, Terminal, and other applications. The terminal output shows the user 'vedamsh' at the prompt 'vedamsh@vedamsh69: ~/Desktop/Cognizance2021/task4' executing the command 'rm newname1.txt'. The output of the 'ls' command shows 'folder1' and 'newname.txt'.

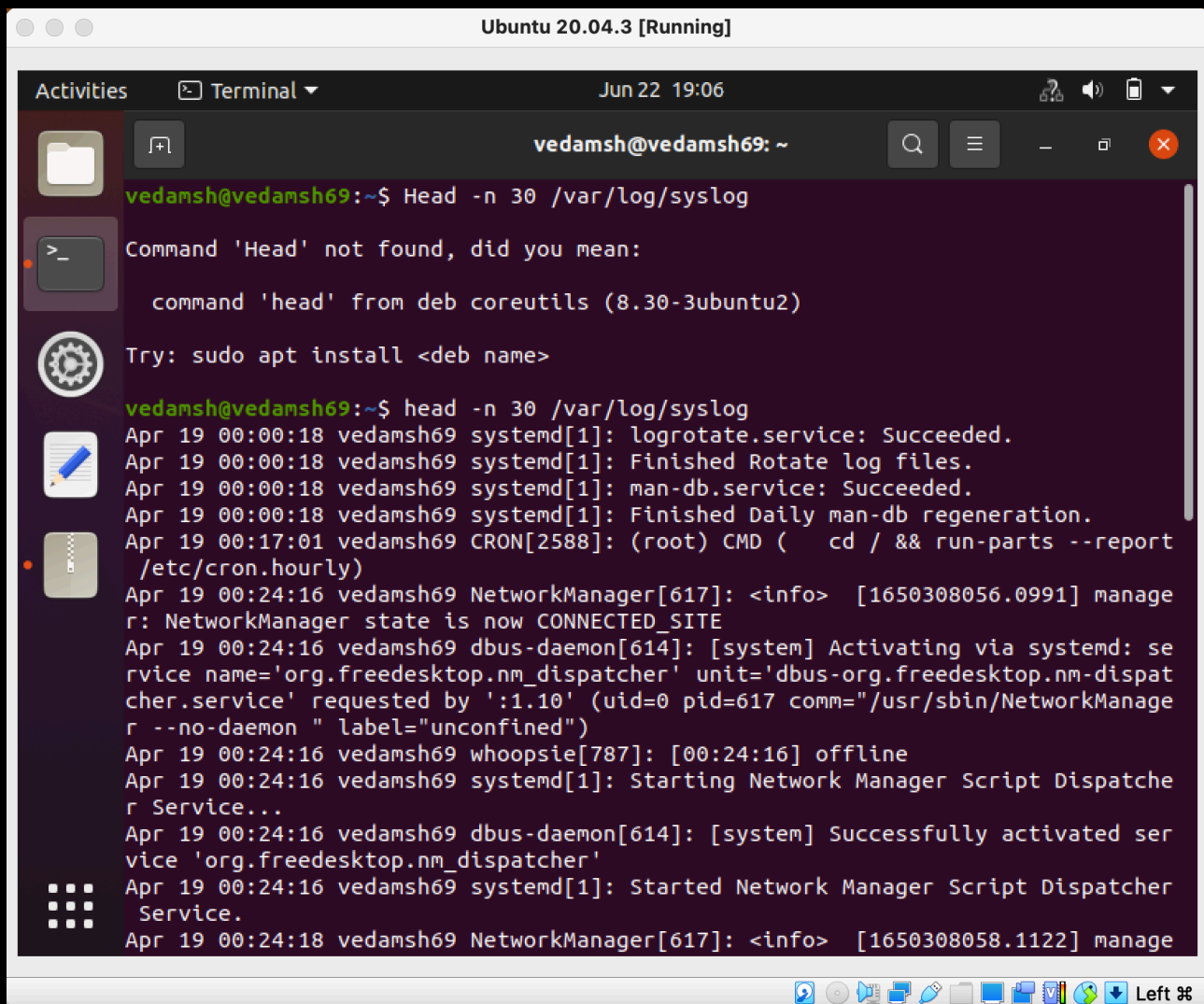
```
vedamsh@vedamsh69: ~/Desktop/Cognizance2021/task4$ rm newname1.txt
vedamsh@vedamsh69: ~/Desktop/Cognizance2021/task4$ ls
folder1  newname.txt
vedamsh@vedamsh69: ~/Desktop/Cognizance2021/task4$
```

Part 2:

Write a bash script to echo your name 25 times:

[illegible]

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



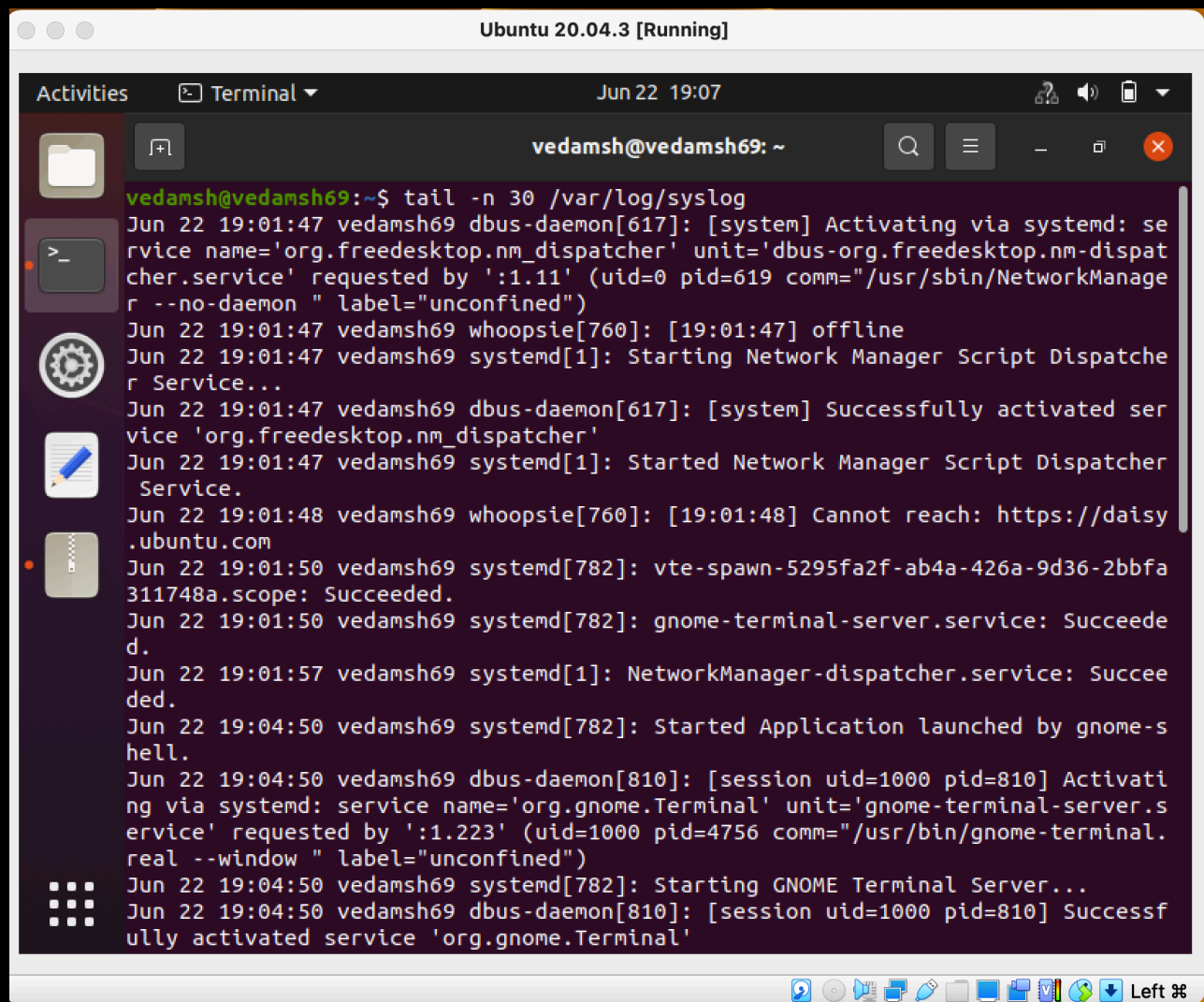
The screenshot shows a terminal window titled "Ubuntu 20.04.3 [Running]". The user is logged in as "vedamsh" on a machine named "vedamsh69". The terminal shows the command `vedamsh@vedamsh69:~$ Head -n 30 /var/log/syslog`. An error message appears: "Command 'Head' not found, did you mean: command 'head' from deb coreutils (8.30-3ubuntu2)". The user then runs `vedamsh@vedamsh69:~$ head -n 30 /var/log/syslog`, which displays the first 30 lines of the syslog file. The output shows various system events, including logrotate service success, log file rotation, man-db service success, daily man-db regeneration, a cron job running, and NetworkManager and dbus-daemon status updates.

```
vedamsh@vedamsh69:~$ Head -n 30 /var/log/syslog
Command 'Head' not found, did you mean:
  command 'head' from deb coreutils (8.30-3ubuntu2)

Try: sudo apt install <deb name>

vedamsh@vedamsh69:~$ head -n 30 /var/log/syslog
Apr 19 00:00:18 vedamsh69 systemd[1]: logrotate.service: Succeeded.
Apr 19 00:00:18 vedamsh69 systemd[1]: Finished Rotate log files.
Apr 19 00:00:18 vedamsh69 systemd[1]: man-db.service: Succeeded.
Apr 19 00:00:18 vedamsh69 systemd[1]: Finished Daily man-db regeneration.
Apr 19 00:17:01 vedamsh69 CRON[2588]: (root) CMD ( cd / && run-parts --report
/etc/cron.hourly)
Apr 19 00:24:16 vedamsh69 NetworkManager[617]: <info> [1650308056.0991] manage
r: NetworkManager state is now CONNECTED_SITE
Apr 19 00:24:16 vedamsh69 dbus-daemon[614]: [system] Activating via systemd: se
rvice name='org.freedesktop.nm_dispatcher' unit='dbus-org.freedesktop.nm-dispat
cher.service' requested by ':1.10' (uid=0 pid=617 comm="/usr/sbin/NetworkManage
r --no-daemon " label="unconfined")
Apr 19 00:24:16 vedamsh69 whoopsie[787]: [00:24:16] offline
Apr 19 00:24:16 vedamsh69 systemd[1]: Starting Network Manager Script Dispatch
er Service...
Apr 19 00:24:16 vedamsh69 dbus-daemon[614]: [system] Successfully activated ser
vice 'org.freedesktop.nm_dispatcher'
Apr 19 00:24:16 vedamsh69 systemd[1]: Started Network Manager Script Dispatcher
Service.
Apr 19 00:24:18 vedamsh69 NetworkManager[617]: <info> [1650308058.1122] manage
```

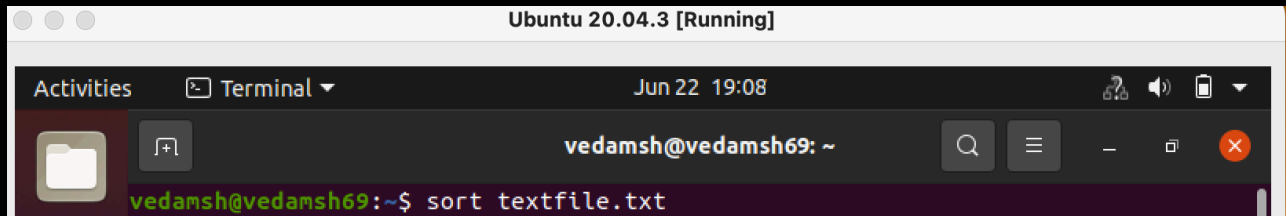

What command should I use to display the last 30 entries of syslog file?



```
vedamsh@vedamsh69: ~$ tail -n 30 /var/log/syslog
Jun 22 19:01:47 vedamsh69 dbus-daemon[617]: [system] Activating via systemd: service name='org.freedesktop.nm_dispatcher' unit='dbus-org.freedesktop.nm-dispatcher.service' requested by ':1.11' (uid=0 pid=619 comm="/usr/sbin/NetworkManager --no-daemon " label="unconfined")
Jun 22 19:01:47 vedamsh69 whoopsie[760]: [19:01:47] offline
Jun 22 19:01:47 vedamsh69 systemd[1]: Starting Network Manager Script Dispatcher Service...
Jun 22 19:01:47 vedamsh69 dbus-daemon[617]: [system] Successfully activated service 'org.freedesktop.nm_dispatcher'
Jun 22 19:01:47 vedamsh69 systemd[1]: Started Network Manager Script Dispatcher Service.
Jun 22 19:01:48 vedamsh69 whoopsie[760]: [19:01:48] Cannot reach: https://daisy.ubuntu.com
Jun 22 19:01:50 vedamsh69 systemd[782]: vite-spawn-5295fa2f-ab4a-426a-9d36-2bbfa311748a.scope: Succeeded.
Jun 22 19:01:50 vedamsh69 systemd[782]: gnome-terminal-server.service: Succeeded.
Jun 22 19:01:57 vedamsh69 systemd[1]: NetworkManager-dispatcher.service: Succeeded.
Jun 22 19:04:50 vedamsh69 systemd[782]: Started Application launched by gnome-shell.
Jun 22 19:04:50 vedamsh69 dbus-daemon[810]: [session uid=1000 pid=810] Activating via systemd: service name='org.gnome.Terminal' unit='gnome-terminal-server.service' requested by ':1.223' (uid=1000 pid=4756 comm="/usr/bin/gnome-terminal.real --window " label="unconfined")
Jun 22 19:04:50 vedamsh69 systemd[782]: Starting GNOME Terminal Server...
Jun 22 19:04:50 vedamsh69 dbus-daemon[810]: [session uid=1000 pid=810] Successfully activated service 'org.gnome.Terminal'
```

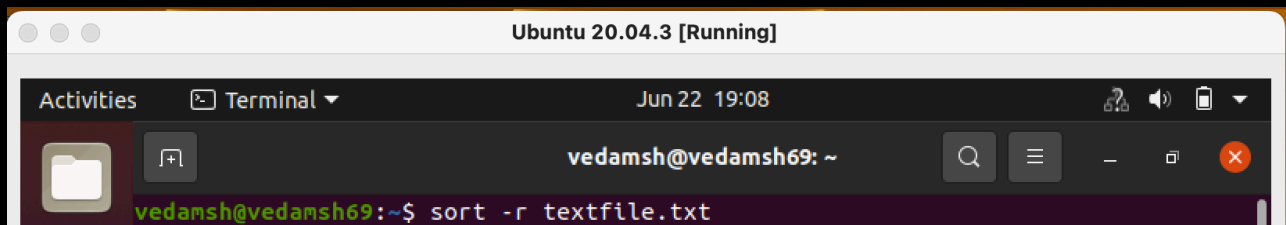
What command should I use to arrange the entries of a file

a. Alphabetically



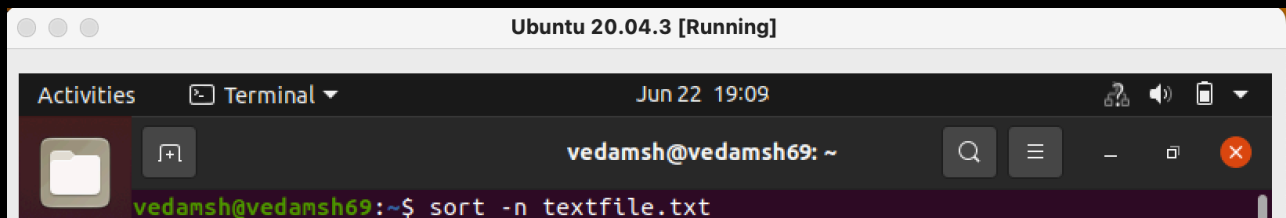
```
vedamsh@vedamsh69: ~$ sort textfile.txt
```

b. Reverse Order



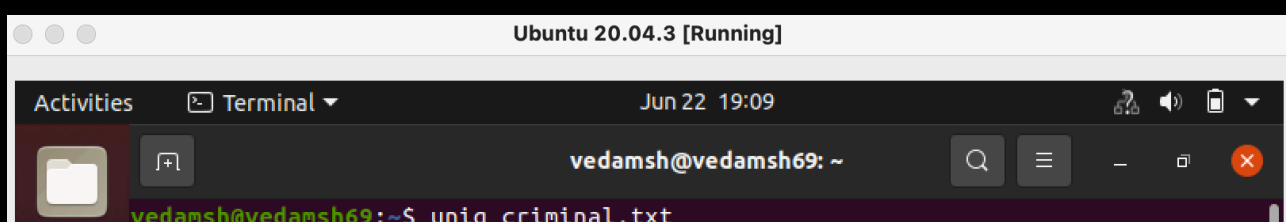
```
vedamsh@vedamsh69: ~$ sort -r textfile.txt
```

c. Numerical Order



```
vedamsh@vedamsh69: ~$ sort -n textfile.txt
```

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?



```
vedamsh@vedamsh69: ~$ uniq criminal.txt
```

What are the Three parts of file's permission?

- A. Read
- B. Write
- C. Execute