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Cognizance

Task-4 -2

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

[illegible]

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

Head command is used to display the first n lines of the file

```
(uwan@uwan) - [/var/log]
$ ls
alternatives.log apt bootstrap.log btmp dpkg.log faillog journal lastlog wtmp
```

```
(uwan@uwan) - [/var/log]
$ head -n 30 dpkg.log
2022-05-17 00:00:54 startup archives install
2022-05-17 00:00:54 install base-passwd:amd64 <none> 3.5.52
2022-05-17 00:00:54 status half-installed base-passwd:amd64 3.5.52
2022-05-17 00:00:54 status unpacked base-passwd:amd64 3.5.52
2022-05-17 00:00:54 configure base-passwd:amd64 3.5.52 3.5.52
2022-05-17 00:00:54 status half-configured base-passwd:amd64 3.5.52
2022-05-17 00:00:54 status installed base-passwd:amd64 3.5.52
2022-05-17 00:00:54 startup archives install
2022-05-17 00:00:54 install base-files:amd64 <none> 1:2022.2.0
2022-05-17 00:00:54 status half-installed base-files:amd64 1:2022.2.0
2022-05-17 00:00:54 status unpacked base-files:amd64 1:2022.2.0
2022-05-17 00:00:54 configure base-files:amd64 1:2022.2.0 1:2022.2.0
2022-05-17 00:00:54 status half-configured base-files:amd64 1:2022.2.0
2022-05-17 00:00:54 status installed base-files:amd64 1:2022.2.0
2022-05-17 00:00:54 startup archives install
2022-05-17 00:00:54 upgrade dpkg 1.21.7kali1 1.21.7kali1
2022-05-17 00:00:54 status half-configured dpkg 1.21.7kali1
2022-05-17 00:00:54 status unpacked dpkg 1.21.7kali1
2022-05-17 00:00:54 status half-installed dpkg 1.21.7kali1
2022-05-17 00:00:54 status unpacked dpkg:amd64 1.21.7kali1
2022-05-17 00:00:54 configure dpkg:amd64 1.21.7kali1 1.21.7kali1
2022-05-17 00:00:54 status half-configured dpkg:amd64 1.21.7kali1
2022-05-17 00:00:54 status installed dpkg:amd64 1.21.7kali1
2022-05-17 00:00:54 startup archives install
2022-05-17 00:00:54 install libc6:amd64 <none> 2.33-6
2022-05-17 00:00:54 status half-installed libc6:amd64 2.33-6
2022-05-17 00:00:55 status unpacked libc6:amd64 2.33-6
2022-05-17 00:00:55 configure libc6:amd64 2.33-6 2.33-6
2022-05-17 00:00:55 status half-configured libc6:amd64 2.33-6
2022-05-17 00:00:55 status installed libc6:amd64 2.33-6
```

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

Tail command to used to print the last lines of the file.

```
(uvan@uvan)-[/var/log]
$ tail -n 30 dpkg.log
2022-06-22 11:52:08 status unpacked vim-tiny:amd64 2:8.2.4793-1
2022-06-22 11:52:08 status half-configured vim-tiny:amd64 2:8.2.4793-1
2022-06-22 11:52:08 status installed vim-tiny:amd64 2:8.2.4793-1
2022-06-22 11:52:08 configure libbbpf0:amd64 1:0.8.0-1 <none>
2022-06-22 11:52:08 status unpacked libbbpf0:amd64 1:0.8.0-1
2022-06-22 11:52:08 status half-configured libbbpf0:amd64 1:0.8.0-1
2022-06-22 11:52:08 status installed libbbpf0:amd64 1:0.8.0-1
2022-06-22 11:52:08 configure iproute2:amd64 5.18.0-1 <none>
2022-06-22 11:52:08 status unpacked iproute2:amd64 5.18.0-1
2022-06-22 11:52:08 status half-configured iproute2:amd64 5.18.0-1
2022-06-22 11:52:08 status installed iproute2:amd64 5.18.0-1
2022-06-22 11:52:08 configure isc-dhcp-client:amd64 4.4.3-2 <none>
2022-06-22 11:52:08 status unpacked isc-dhcp-client:amd64 4.4.3-2
2022-06-22 11:52:08 status half-configured isc-dhcp-client:amd64 4.4.3-2
2022-06-22 11:52:08 status installed isc-dhcp-client:amd64 4.4.3-2
2022-06-22 11:52:08 trigproc libc-bin:amd64 2.33-6 <none>
2022-06-22 11:52:08 status half-configured libc-bin:amd64 2.33-6
2022-06-22 11:52:08 status installed libc-bin:amd64 2.33-6
2022-06-22 11:52:08 trigproc debianutils:amd64 5.7-0.2 <none>
2022-06-22 11:52:08 status half-configured debianutils:amd64 5.7-0.2
2022-06-22 11:52:08 status installed debianutils:amd64 5.7-0.2
2022-06-22 12:22:47 startup archives unpack
2022-06-22 12:22:47 install unzip:amd64 <none> 6.0-26
2022-06-22 12:22:47 status half-installed unzip:amd64 6.0-26
2022-06-22 12:22:47 status unpacked unzip:amd64 6.0-26
2022-06-22 12:22:48 startup packages configure
2022-06-22 12:22:48 configure unzip:amd64 6.0-26 <none>
2022-06-22 12:22:48 status unpacked unzip:amd64 6.0-26
2022-06-22 12:22:48 status half-configured unzip:amd64 6.0-26
2022-06-22 12:22:48 status installed unzip:amd64 6.0-26
```

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

- Alphabetically: `sort filename`
- Reverse order: `sort -r filename`

```
(uvan@uvan)-[/mnt/d/Cognizance]
$ touch smapletxt.txt

(uvan@uvan)-[/mnt/d/Cognizance]
$ cat >sampletxt.txt
hello this one is a sample
1234
this is task 4
my name is uvan
i am in chennai
7890
^Z
[3]+  Stopped                  cat > sampletxt.txt

(uvan@uvan)-[/mnt/d/Cognizance]
$ sort sampletxt.txt
1234
7890
hello this one is a sample
i am in chennai
my name is uvan
this is task 4

(uvan@uvan)-[/mnt/d/Cognizance]
$ sort -r sampletxt.txt
this is task 4
my name is uvan
i am in chennai
hello this one is a sample
7890
1234
```

- Numerical order: `sort -n filename`

```
(uvan@uvan) - [/mnt/d/Cognizance]
$ cat >samp.txt
12546
56
45
44
12
00
11
22
254
5

85
8
^Z
[4]+  Stopped                  cat > samp.txt

(uvan@uvan) - [/mnt/d/Cognizance]
$ sort -n  samp.txt

00
5
8
11
12
22
44
45
56
85
254
12546
```

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?

Ans: Sort command with -u can be used.

-u is to filter the unique values.

```
(uvan@uvan) - [/mnt/d/Cognizance]
$ cat >s.txt
uvan
vikram
vs
karthi
vikram
karthi
vs
surya
surya
f
f
uvan
vikram
^Z
[5]+ Stopped          cat > s.txt

(uvan@uvan) - [/mnt/d/Cognizance]
$ sort -u s.txt
f
karthi
surya
uvan
vikram
vs
```

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

The three parts of the file permission are Read, Write and Execute.

- Read: In this mode we can only view and read the file.
- Write: In this mode we can make changes to the file like modifying and replacing the contents and deleting. this requires *execute* permission, without it, the write permission is meaningless.
- Execute: It grants the ability to execute a file. It is set for executable programs, in order to allow the compiler or interpreter to run them.