1) Meaning of different user prompt

- \$, #, % symbols indicate the user account type you are logged in to.
- Dollar sign (\$) means you are a normal user.
- hash (#) means you are the system administrator (root).
- In the C shell, the prompt ends with a percentage sign (%).

2)How to switch between normal user and root

```
a)From root to user type "exit" and enter
b)To go to root sudo –i
c)To go to home directory type "cd ~"
```

2) To get username, logname is not displaying

```
mmkds@DESKTOP-Q25B10N:~$ who ami
nmkds@DESKTOP-Q25B10N:~$ who
nmkds@DESKTOP-Q25B10N:~$ id -un
nmkds
nmkds@DESKTOP-Q25B10N:~$ logname
logname: no login name
nmkds@DESKTOP-Q25B10N:~$ sudo -i
[sudo] password for nmkds:
root@DESKTOP-Q25B10N:~# exit
logout
nmkds@DESKTOP-Q25B10N:~$ cd ~
nmkds@DESKTOP-Q25B10N:~$ _
```

```
nmkds@DESKTOP-Q25B10N: ~
                                                                                                                                                                                                                nkds@DESKTOP-Q25B10N:~$ pwd
  /home/nmkds
   nmkds@DESKTOP-Q25B10N:~$ ls -1
  total 24
 drwxr-xr-x 1 nmkds nmkds 4096 Oct 6 14:47 Assignment
drwxr-xr-x 1 nmkds nmkds 4096 Oct 6 14:45 Lab
drwxr-xr-x 1 nmkds nmkds 34 Oct 6 13:43 Start
drwxr-xr-x 1 nmkds nmkds 4096 Oct 6 13:46 a
drwxr-xr-x 1 nmkds nmkds 4096 Oct 6 13:45 c
drwxr-xr-x 1 nmkds nmkds 4096 Oct 6 13:45 c
Adrwxr-xr-x 1 nmkds nmkds 4096 Oct 4 20:46 cv

Adrwxr-xr-x 1 nmkds nmkds 4096 Oct 5 18:02 edac

Adrwxr-xr-x 1 nmkds nmkds 4096 Oct 5 18:02 edac

Adrw-r--r-- 1 nmkds nmkds 0 Oct 4 23:58 file

-rw-r--r-- 1 nmkds nmkds 0 Oct 4 23:58 file.txt

Cl
-rw-r--r- 1 nmkds nmkds 15 Oct 6 09:44 test.txt
    mkds@DESKTOP-Q25B10N:~$ ls -a
                                 .bash\_logout ..motd\_shown ..sudo\_as\_admin\_successful \ Assignment \ a \ cv \\ \ file.txt
                                 .bashrc
                                                                                                                                                                        b edac test.txt
c file typescript
                                                               .ns.txt.swp .swp
   .bash_history .landscape
nmkds@DESKTOP-Q25B10N:~$
                                                               .profile
                                                                                           .viminfo
                                                                                                                                                      Start
```

Cat command

Cat(concatenate) command is very frequently used in Linux. It reads data from the file and gives their content as output. It helps us to create, view, concatenate files. So let us see some frequently used cat commands.

1) To view a single file

Command:

\$cat filename

Output

It will show content of given filename

2) To view multiple files

Command:

Scat file1 file2

3) To view contents of a file preceding with line numbers.

Command:

Scat -n filename

Output

It will show content with line number

example:-cat-n file.txt

1)This is file

2)A unique array

4) Create a file

Command:

\$ cat >newfile

Output

Will create and a file named newfile

5) Copy the contents of one file to another file.

Command:

\$cat [filename-whose-contents-is-to-be-copied] > [destination-filename]

Output

The content will be copied in destination file

6) Cat command can suppress repeated empty lines in output

Command:

\$cat –s file.txt

Will suppress repeated empty lines in output

7) Cat command can append the contents of one file to the end of another file. Command:

\$cat file1 >> file2

Output

Will append the contents of one file to the end of another file

8) Cat command can display content in reverse order using tac command. Command:

\$tac filename

Output

Will display content in reverse order

9) Cat command can highlight the end of line.

Command:

\$cat -E "filename"

Output

Will highlight the end of line

10) If you want to use the -v, -E and -T option together, then instead of writing -vET in the command, you can just use the -A command line option.

Command

\$cat -A "filename"

11) Cat command to open dashed files.

Command:

\$cat -- "-dashfile"

Output

Will display the content of -dashfile

12) Cat command if the file has a lot of content and can't fit in the terminal. Command:

\$cat "filename" | more

Output

Will show that much content, which could fit in terminal and will ask to show more.

12) Cat command to merge the contents of multiple files.

\$cat "filename1" "filename2" "filename3" > "merged_filename"

Output

Will merge the contents of file in respective order and will insert that content in "merged_filename".

13) Cat command to display the content of all text files in the folder. Command:

\$cat *.txt

Output

Will show the content of all text files present in the folder.

```
onmkds@DESKTOP-Q25B10N: -
                                                                                                                   đ
 mkds@DESKTOP-Q25B10N:~$ echo "Create a file type data and display it"
Create a file type data and display it
nmkds@DESKTOP-Q25B10N:~$ cat file1.txt
Now type into
File some data
and come out
 mkds@DESKTOP-Q25B10N:~$ echo " It showed data of already created file"
It showed data of already created file
 mkds@DESKTOP-Q25B10N:~$ cat >newfile.txt
Hi i m creating a new file and writing in it
to stop
press control D
nmkds@DESKTOP-Q25B10N:~$ echo "display data for new file"
display data for new file
nmkds@DESKTOP-Q25B10N:~$ cat newfile.txt
Hi i m creating a new file and writing in it
to stop
press control D
nmkds@DESKTOP-Q25B10N:~$ echo"Combine 2 files or display data togethr"
echoCombine 2 files or display data togethr: command not found
nmkds@DESKTOP-025B10N:~$ cat file1.txt newfile.txt
Now type into
File some data
and come out
Hi i m creating a new file and writing in it
to stop
press control D
 mkds@DESKTOP-Q25B10N:~$
                                                                                                     へ 恒 /(。如) ENG 8:45 PM IN 10/6/2020
```

Seq command

seq command in Linux is used to generate numbers from *FIRST* to *LAST* in steps of *INCREMENT*. It is a very useful command where we had to generate list of numbers in while, for, until loop.

Syntax:

```
seq [OPTION]... LAST

or

seq [OPTION]... FIRST LAST

or

seq [OPTION]... FIRST INCREMENT LAST
```

Options:

• **seq LAST**: When only one argument is given then it produces numbers from 1 to *LAST* in step increment of 1. If the *LAST* is less than 1, then is produces no output.

```
File Edit View Search Terminal Help
naman@root:~$ seq 10
1
2
3
4
5
6
7
8
9
10
naman@root:~$
```

• **seq FIRST LAST**: When two arguments are given then it produces numbers from *FIRST* till *LAST* is step increment of 1. If *LAST* is less than *FIRST*, then it produces no output.

```
File Edit View Search Terminal Help
naman@root:~$ seq 3 9
3
4
5
6
7
8
9
naman@root:~$
```

• **seq FIRST INCREMENT LAST**: When three arguments are given then it produces numbers from *FIRST* till *LAST* in step of *INCREMENT*. If *LAST* is less than *FIRST*, then it produces no output.

```
File Edit View Search Terminal Help
naman@root:~$ seq 3 7 30
3
10
17
24
naman@root:~$
```

• **seq -f "FORMAT" FIRST INCREMENT LAST**: This command is used to generate sequence in a formated manner. *FIRST* and *INCREMENT* are optional.

```
File Edit View Search Terminal Help
naman@root:~$ seq -f "GFG%02g" 4
GFG01
GFG02
GFG03
GFG04
naman@root:~$ seq -f "GFG%02g" 2 4
GFG02
GFG03
GFG04
naman@root:~$ seq -f "GFG%02g" 10 10 40
GFG10
GFG20
GFG30
GFG40
naman@root:~$
```

• seq -s "STRING" FIRST INCREMENT LAST: This command is uses to STRING to seprate numbers. By default this value is equal to "\n". FIRST and INCREMENT are optional.

Recommended: Please try your approach on {IDE} first, before moving on to the solution.

```
File Edit View Search Terminal Help

naman@root:~$ seq -s " " 10

1 2 3 4 5 6 7 8 9 10

naman@root:~$ seq -s " " 5 10

5 6 7 8 9 10

naman@root:~$ seq -s " " 5 4 15

5 9 13

naman@root:~$ [
```

• **seq** -**w FIRST INCREMENT LAST**: This command is used to equalize width by padding with leading zeroes. *FIRST* and *INCREMENT* are optional.

```
File Edit View Search Terminal Help
naman@root:~$ seq -w 10
01
02
03
04
05
06
07
08
09
10
naman@root:~$ seq -w 99 101
099
100
101
naman@root:~$ seq -w 1 10 50
01
11
21
31
41
naman@root:~$
```