



KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

Deemed to be University U/S 3 of the UGC Act, 1956

Name: Krishnendu Bose

Roll Number: 21052597

Course: B.Tech. (Computer Science & Engineering)

Section: CSE - 14

Subject: OS(LAB)

Assignment Number: 1

Date: 12.01.2023

QUESTION:

Q) Use 50 different Linux commands.

```
Activities Terminal Jan 12 23:36 krishnendu_b@Ubuntu-22: ~/Desktop

krishnendu_b@Ubuntu-22:~$ pwd
/home/krishnendu_b
krishnendu_b@Ubuntu-22:~$ ls
Desktop Documents Downloads Music Pictures Public snap Templates Videos
krishnendu_b@Ubuntu-22:~$ ls -l
total 36
drwxr-xr-x 2 krishnendu_b krishnendu_b 4096 Jan 12 23:35 Desktop
drwxr-xr-x 2 krishnendu_b krishnendu_b 4096 Jan 12 13:23 Documents
drwxr-xr-x 2 krishnendu_b krishnendu_b 4096 Jan 12 13:23 Downloads
drwxr-xr-x 2 krishnendu_b krishnendu_b 4096 Jan 12 13:23 Music
drwxr-xr-x 2 krishnendu_b krishnendu_b 4096 Jan 12 13:23 Pictures
drwxr-xr-x 2 krishnendu_b krishnendu_b 4096 Jan 12 13:23 Public
drwx----- 5 krishnendu_b krishnendu_b 4096 Jan 12 23:33 snap
drwxr-xr-x 2 krishnendu_b krishnendu_b 4096 Jan 12 13:23 Templates
drwxr-xr-x 2 krishnendu_b krishnendu_b 4096 Jan 12 13:23 Videos
krishnendu_b@Ubuntu-22:~$ la -la
total 84
drwxr-xr-x 16 krishnendu_b krishnendu_b 4096 Jan 12 23:06 .
drwxr-xr-x 3 root root 4096 Jan 12 13:08 ..
-rw----- 1 krishnendu_b krishnendu_b 1356 Jan 12 23:32 .bash_history
-rw-r--r-- 1 krishnendu_b krishnendu_b 220 Jan 12 13:08 .bash_logout
-rw-r--r-- 1 krishnendu_b krishnendu_b 3771 Jan 12 13:08 .bashrc
drwx----- 12 krishnendu_b krishnendu_b 4096 Jan 12 22:38 .cache
drwx----- 13 krishnendu_b krishnendu_b 4096 Jan 12 22:43 .config
drwxr-xr-x 2 krishnendu_b krishnendu_b 4096 Jan 12 23:35 Desktop
drwxr-xr-x 2 krishnendu_b krishnendu_b 4096 Jan 12 13:23 Documents
drwxr-xr-x 2 krishnendu_b krishnendu_b 4096 Jan 12 13:23 Downloads
drwx----- 2 krishnendu_b krishnendu_b 4096 Jan 12 21:15 .gnupg
-rw----- 1 krishnendu_b krishnendu_b 20 Jan 12 23:06 .lessshst
drwx----- 3 krishnendu_b krishnendu_b 4096 Jan 12 13:22 .local
drwxr-xr-x 2 krishnendu_b krishnendu_b 4096 Jan 12 13:23 Music
drwxr-xr-x 2 krishnendu_b krishnendu_b 4096 Jan 12 13:23 Pictures
-rw-r--r-- 1 krishnendu_b krishnendu_b 807 Jan 12 13:08 .profile
drwxr-xr-x 2 krishnendu_b krishnendu_b 4096 Jan 12 13:23 Public
drwx----- 5 krishnendu_b krishnendu_b 4096 Jan 12 23:33 snap
drwx----- 2 krishnendu_b krishnendu_b 4096 Jan 12 21:15 .ssh
drwxr-xr-x 2 krishnendu_b krishnendu_b 4096 Jan 12 13:23 Templates
drwxr-xr-x 2 krishnendu_b krishnendu_b 4096 Jan 12 13:23 Videos
krishnendu_b@Ubuntu-22:~$ cd Desktop
krishnendu_b@Ubuntu-22:~/Desktop$ mkdir OSLAB
krishnendu_b@Ubuntu-22:~/Desktop$ rmdir OSLAB
krishnendu_b@Ubuntu-22:~/Desktop$ date
Thursday 12 January 2023 11:36:37 PM IST
krishnendu_b@Ubuntu-22:~/Desktop$ who
krishnendu_b tty2 2023-01-12 21:15 (tty2)
krishnendu_b@Ubuntu-22:~/Desktop$
```

Activities Text Editor Jan 12 23:41

krishnendu_b@Ubuntu-22: ~/Desktop

```
krishnendu_b@Ubuntu-22:~$ pwd
/home/krishnendu_b
krishnendu_b@Ubuntu-22:~$ ls
Desktop Documents Downloads Music Pictures Public snap Templates Videos
krishnendu_b@Ubuntu-22:~$ ls -l
total 36
drwxr-xr-x 2 krishnendu_b krishnendu_b 4096 Jan 12 23:35 Desktop
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drwxr-xr-x 2 krishnendu_b krishnendu_b 4096 Jan 12 13:23 Public
drwx----- 5 krishnendu_b krishnendu_b 4096 Jan 12 23:33 snap
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Thursday 12 January 2023 11:36:37 PM IST
krishnendu_b@Ubuntu-22:~/Desktop$ who
krishnendu_b tty2 2023-01-12 21:15 (tty2)
krishnendu_b@Ubuntu-22:~/Desktop$ touch tmp.txt
krishnendu_b@Ubuntu-22:~/Desktop$ man mkdir
krishnendu_b@Ubuntu-22:~/Desktop$ cp tmp.txt temp_cpy.txt
krishnendu_b@Ubuntu-22:~/Desktop$ mv temp.txt temp_new.txt
krishnendu_b@Ubuntu-22:~/Desktop$ echo Hi >>temp_new.txt
krishnendu_b@Ubuntu-22:~/Desktop$ cat temp_new.txt
abc
Hi
krishnendu_b@Ubuntu-22:~/Desktop$ gedit temp_new.txt
```

temp_new.txt ~/Desktop

```
1 abc
2 Hi
```

Plain Text Tab Width: 8 Ln 1, Col 1 INS

```
Activities  Terminal  Jan 12 23:44  krishnendu_b@Ubuntu-22: ~/Desktop

krishnendu_b@Ubuntu-22:~/Desktop$ gedit temp_new.txt

krishnendu_b@Ubuntu-22:~/Desktop$ wc -c demo.txt
xyz
 1      1      4 -
wc: c: No such file or directory
 14     385    2320 demo.txt
 15     386    2324 total
krishnendu_b@Ubuntu-22:~/Desktop$ wc -c demo.txt
2320 demo.txt
krishnendu_b@Ubuntu-22:~/Desktop$ head -5 demo.txt

What is Lorem Ipsum?

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and
scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with th
e release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.
Why do we use it?
krishnendu_b@Ubuntu-22:~/Desktop$ head -15 demo.txt

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It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distributi
on of letters, as opposed to using 'Content here, content here', making it look like readable English. Many desktop publishing packages and web page editors now use Lorem Ipsum as their default model tex
t, and a search for 'lorem ipsum' will uncover many web sites still in their infancy. Various versions have evolved over the years, sometimes by accident, sometimes on purpose (injected humour and the li
ke).

Where does it come from?

Contrary to popular belief, Lorem Ipsum is not simply random text. It has roots in a piece of classical Latin literature from 45 BC, making it over 2000 years old. Richard McClintock, a Latin professor a
t Hampden-Sydney College in Virginia, looked up one of the more obscure Latin words, consectetur, from a Lorem Ipsum passage, and going through the cites of the word in classical literature, discovered t
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The standard chunk of Lorem Ipsum used since the 1500s is reproduced below for those interested. Sections 1.10.32 and 1.10.33 from "de Finibus Bonorum et Malorum" by Cicero are also reproduced in their e
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krishnendu_b@Ubuntu-22:~/Desktop$ tail -5 demo.txt

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krishnendu_b@Ubuntu-22:~/Desktop$ tail -15 demo.txt
```


ActivitiesTerminalJan 12 23:45krishnendu_b@Ubuntu-22: ~/Desktop



krishnendu_b@Ubuntu-22:~/Desktop

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krishnendu_b@Ubuntu-22:~/Desktop\$

```
Activities Terminal Jan 12 23:47 krishnendu_b@Ubuntu-22: ~/Desktop

zytrax/jammy 0+git20201215-1 amd64
zstplib-bin/jammy 0.13.72+dfsg.1-1.1 amd64
zstplib-bin/jammy 0.13.72+dfsg.1-1.1 i386
krishnendu_b@Ubuntu-22:~/Desktop$ top

top - 23:46:11 up 2:11, 1 user, load average: 0.59, 0.50, 0.47
Tasks: 237 total, 1 running, 236 sleeping, 0 stopped, 0 zombie
%Cpu(s): 2.3 us, 2.1 sy, 0.0 ni, 94.5 id, 0.0 wa, 0.0 hi, 1.1 si, 0.0 st
MiB Mem : 3925.3 total, 409.6 free, 1796.0 used, 1719.7 buff/cache
MiB Swap: 2680.0 total, 2680.0 free, 0.0 used, 1826.0 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR   S  %CPU  %MEM    TIME+  COMMAND
 1483 krishne+  20   0 4660736 262044 127456 S 18.9   6.5   6:20.43 gnome-shell
 3830 krishne+  20   0 838384 64880 47672 S 11.6   1.6   0:50.32 gnome-terminal-
 14 root      20   0      0      0      0 I 1.7   0.0   0:39.95 rcu_sched
 7266 root      20   0      0      0      0 I 1.0   0.0   0:00.34 kworker/u8:1-events_freezable_power_
 550 systemd+  20   0 14824 6008 5212 S 0.7   0.1   0:12.08 systemd-oomd
 658 root      20   0 269656 19096 16020 S 0.3   0.5   0:02.51 NetworkManager
 4259 root      20   0      0      0      0 I 0.3   0.0   0:03.74 kworker/3:1-events
 4332 root      20   0      0      0      0 I 0.3   0.0   0:01.25 kworker/2:2-events
 4628 root      20   0      0      0      0 I 0.3   0.0   0:02.42 kworker/0:0-ata_sff
 7267 krishne+  20   0 21872 4240 3376 R 0.3   0.1   0:00.04 top
 1 root      20   0 166492 11756 8276 S 0.0   0.3   0:03.78 systemd
 2 root      20   0      0      0      0 S 0.0   0.0   0:00.10 kthreadd
 3 root      0 -20      0      0      0 I 0.0   0.0   0:00.00 rcu_gp
 4 root      0 -20      0      0      0 I 0.0   0.0   0:00.00 rcu_par_gp
 5 root      0 -20      0      0      0 I 0.0   0.0   0:00.00 netns
 7 root      0 -20      0      0      0 I 0.0   0.0   0:00.00 kworker/0:0H-events_highpri
10 root      0 -20      0      0      0 I 0.0   0.0   0:00.00 mm_percpu_wq
11 root      20   0      0      0      0 S 0.0   0.0   0:00.00 rcu_tasks_rude_
12 root      20   0      0      0      0 S 0.0   0.0   0:00.00 rcu_tasks_trace
13 root      20   0      0      0      0 S 0.0   0.0   0:01.13 ksoftirqd/0
15 root      rt   0      0      0      0 S 0.0   0.0   0:00.42 migration/0
16 root      -51  0      0      0      0 S 0.0   0.0   0:00.00 idle_inject/0
17 root      20   0      0      0      0 S 0.0   0.0   0:00.00 cpuhp/0
18 root      20   0      0      0      0 S 0.0   0.0   0:00.00 cpuhp/1
19 root      -51  0      0      0      0 S 0.0   0.0   0:00.00 idle_inject/1
20 root      rt   0      0      0      0 S 0.0   0.0   0:00.92 migration/1
21 root      20   0      0      0      0 S 0.0   0.0   0:01.67 ksoftirqd/1
23 root      0 -20      0      0      0 I 0.0   0.0   0:00.00 kworker/1:0H-events_highpri
24 root      20   0      0      0      0 S 0.0   0.0   0:00.00 cpuhp/2
25 root      -51  0      0      0      0 S 0.0   0.0   0:00.00 idle_inject/2
26 root      rt   0      0      0      0 S 0.0   0.0   0:01.25 migration/2
27 root      20   0      0      0      0 S 0.0   0.0   0:02.17 ksoftirqd/2
29 root      0 -20      0      0      0 I 0.0   0.0   0:00.00 kworker/2:0H-events_highpri
30 root      20   0      0      0      0 S 0.0   0.0   0:00.00 cpuhp/3
31 root      -51  0      0      0      0 S 0.0   0.0   0:00.00 idle_inject/3
32 root      rt   0      0      0      0 S 0.0   0.0   0:01.20 migration/3
33 root      20   0      0      0      0 S 0.0   0.0   0:14.40 ksoftirqd/3
35 root      0 -20      0      0      0 I 0.0   0.0   0:00.00 kworker/3:0H-events_highpri
36 root      20   0      0      0      0 S 0.0   0.0   0:00.08 kdevtmpfs
37 root      0 -20      0      0      0 I 0.0   0.0   0:00.00 inet_frag_wq
38 root      20   0      0      0      0 S 0.0   0.0   0:00.01 kauditd
39 root      20   0      0      0      0 S 0.0   0.0   0:00.01 khungtaskd
40 root      20   0      0      0      0 S 0.0   0.0   0:00.00 oom_reaper
41 root      0 -20      0      0      0 I 0.0   0.0   0:00.00 writeback
```

```
Activities  Terminal  Jan 12 23:53  krishnendu_b@Ubuntu-22: ~/Desktop

krishnendu_b@Ubuntu-22:~/Desktop$ what is ls
Command 'what' not found, did you mean:
  command 'chat' from deb ppp (2.4.9-1+ubuntu3)
  command 'wcat' from deb sac (1.9b5-3build1)
  command 'wham' from deb wham-align (0.1.5-8)
  command 'phat' from deb phat-utils (1.6-2build2)
  command 'jhat' from deb openjdk-8-jdk-headless (8u352-ga-1~22.04)
Try: apt install <deb name>
krishnendu_b@Ubuntu-22:~/Desktop$ where is ls
where: command not found
krishnendu_b@Ubuntu-22:~/Desktop$ wget kiit.ac.in
--2023-01-12 23:49:43--  http://kiit.ac.in/
Resolving kiit.ac.in (kiit.ac.in)... 172.67.147.28, 104.21.79.189, 2606:4700:3035::6815:4fbd, ...
Connecting to kiit.ac.in (kiit.ac.in)|172.67.147.28|:80... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://kiit.ac.in/ [following]
--2023-01-12 23:49:44--  https://kiit.ac.in/
Connecting to kiit.ac.in (kiit.ac.in)|172.67.147.28|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]
Saving to: 'index.html.1'

index.html.1                                     [          ] 1.55M  254KB/s   in 6.2s

2023-01-12 23:49:51 (257 KB/s) - 'index.html.1' saved [1626320]

krishnendu_b@Ubuntu-22:~/Desktop$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
tmpfs           401948        1604   400344    1% /run
/dev/sda3       25106692 10326192  13479816   44% /
tmpfs           2009736         0   2009736    0% /dev/shm
tmpfs           5120         4      5116    1% /run/lock
/dev/sda2       524252       5364   518888    2% /boot/efi
tmpfs           401944       4744   397200    2% /run/user/1000
krishnendu_b@Ubuntu-22:~/Desktop$ cmp temp.txt temp_new.txt
cmp: temp.txt: No such file or directory
krishnendu_b@Ubuntu-22:~/Desktop$ cmp temp_cpy.txt temp_new.txt
cmp: EOF on temp_cpy.txt after byte 4, line 1
krishnendu_b@Ubuntu-22:~/Desktop$ diff temp_cpy.txt temp_new.txt
1a2
> Hl
krishnendu_b@Ubuntu-22:~/Desktop$ zip t.rar

zip error: Nothing to do! (t.rar)
krishnendu_b@Ubuntu-22:~/Desktop$ zip t.rar temp_cpy.txt
  adding: temp_cpy.txt (stored 0%)
krishnendu_b@Ubuntu-22:~/Desktop$ unzip t.rar temp_cpy.txt
Archive:  t.rar
replace temp_cpy.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
extracting: temp_cpy.txt
krishnendu_b@Ubuntu-22:~/Desktop$ whatis ls
ls (1)             - list directory contents
krishnendu_b@Ubuntu-22:~/Desktop$ whereis ls
ls: /usr/bin/ls /usr/share/man/man1/ls.1.gz
krishnendu_b@Ubuntu-22:~/Desktop$
```



```
Activities Terminal Jan 12 23:55 krishnendu_b@Ubuntu-22: ~
Connecting to kiit.ac.in (kiit.ac.in)[172.67.147.28]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]
Saving to: 'index.html.1'

index.html.1 [ 1.55M 254KB/s in 6.2s]

2023-01-12 23:49:51 (257 KB/s) - 'index.html.1' saved [1626320]

krishnendu_b@Ubuntu-22:~/Desktop$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
tmpfs            401948      1604    400344   1% /run
/dev/sda3       25106692 10326192 13479816  44% /
tmpfs           2009736      0    2009736   0% /dev/shm
tmpfs            5120         4     5116   1% /run/lock
/dev/sda2       524252      5364    518888   2% /boot/efi
tmpfs           401944      4744    397200   2% /run/user/1000

krishnendu_b@Ubuntu-22:~/Desktop$ cmp temp.txt temp_new.txt
cmp: temp.txt: No such file or directory
krishnendu_b@Ubuntu-22:~/Desktop$ cmp temp_cpy.txt temp_new.txt
cmp: EOF on temp_cpy.txt after byte 4, line 1
krishnendu_b@Ubuntu-22:~/Desktop$ diff temp_cpy.txt temp_new.txt
1a2
> Hi
krishnendu_b@Ubuntu-22:~/Desktop$ zip t.rar
zip error: Nothing to do! (t.rar)
krishnendu_b@Ubuntu-22:~/Desktop$ zip t.rar temp_cpy.txt
adding: temp_cpy.txt (stored 0%)
krishnendu_b@Ubuntu-22:~/Desktop$ unzip t.rar temp_cpy.txt
Archive:  t.rar
replace temp_cpy.txt? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
extracting: temp_cpy.txt
krishnendu_b@Ubuntu-22:~/Desktop$ whatis ls
ls (1) - list directory contents
krishnendu_b@Ubuntu-22:~/Desktop$ whereis ls
ls: /usr/bin/ls /usr/share/man/man1/ls.1.gz
krishnendu_b@Ubuntu-22:~/Desktop$ man man
krishnendu_b@Ubuntu-22:~/Desktop$ ps
  PID TTY          TIME CMD
 3864 pts/1    00:00:00 bash
 7402 pts/1    00:00:00 ps
krishnendu_b@Ubuntu-22:~/Desktop$ curl kiit.ac.in
Command 'curl' not found, but can be installed with:
snap install curl # version 7.86.0, or
apt install curl # version 7.81.0-1ubuntu1.7
See 'snap info curl' for additional versions.
krishnendu_b@Ubuntu-22:~/Desktop$ chmod 764 tmp.txt
krishnendu_b@Ubuntu-22:~/Desktop$ uname -a
Linux Ubuntu-22 5.15.0-43-generic #46-Ubuntu SMP Tue Jul 12 10:30:17 UTC 2022 x86_64 x86_64 x86_64 GNU/Linux
krishnendu_b@Ubuntu-22:~/Desktop$ cat >emp.txt
abc
krishnendu_b@Ubuntu-22:~/Desktop$ cd
krishnendu_b@Ubuntu-22: $ alias cls=clear
krishnendu_b@Ubuntu-22: $
```

```
Activities  Terminal  Jan 12 23:56  krishnendu_b@Ubuntu-22: ~  
krishnendu_b@Ubuntu-22:~$ history  
1  ls  
2  cd ..  
3  cd Desktop  
4  cd /Desktop  
5  cd home/Desktop  
6  exit  
7  ls  
8  cd /desktop  
9  cd /desktop/  
10 cd \desktop  
11 cd Desktop  
12 cat > temp  
13 apt-get  
14 apt-get update  
15 apt-get check  
16 pwd  
17 ls  
18 cd Desktop  
19 mkdir  
20 mkdir OSLAB  
21 rmdir OSLAB  
22 date  
23 who  
24 touch temp.txt  
25 man mkdir  
26 cp temp.txt temp_cpy.txt  
27 cat > temp  
28 pwd  
29 ls  
30 ls -l  
31 la -la  
32 cd Desktop  
33 mkdir OSLAB  
34 rmdir OSLAB  
35 date  
36 who  
37 touch tmp.txt  
38 man mkdir  
39 cp temp.txt temp_cpy.txt  
40 mv temp.txt temp_new.txt  
41 echo Hi >>temp_new.txt  
42 cat temp_new.txt  
43 gedit temp_new.txt  
44 wc -c demo.txt  
45 wc -c demo.txt  
46 head -5 demo.txt  
47 head -15 demo.txt  
48 tail -5 demo.txt  
49 tail -15 demo.txt  
50 passwd  
51 12345678  
52 whatis ls  
53 where is ls  
54 apt list  
55 ton
```