

ABHISHEK SHARMA

Year : Third

Section : "I"

Roll No.: 01

Enrolment No.: 12019009001127

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OPERATING SYSTEMS LABORATORY

DAY 1

ASSIGNMENT : 1

DATE : 15.07.2021

**UNIVERSITY OF ENGINEERING & MANAGEMENT, KOLKATA
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

1. List the names of the users logged in.

```
abhisheks008@LAPTOP-9RGGUF05:~$ cut -d: -f1 /etc/passwd
root
daemon
bin
sys
sync
games
man
lp
mail
news
uucp
proxy
www-data
backup
list
irc
gnats
nobody
systemd-network
systemd-resolve
systemd-timesync
messagebus
syslog
_apt
tss
uidd
tcpdump
sshd
landscape
pollinate
abhisheks008
```

2. Find out your terminal's device name.

```
abhisheks008@LAPTOP-9RGGUF05:~$ hostname
LAPTOP-9RGGUF05
```

3. Display current date in the form dd/mm/yy.

```
abhisheks008@LAPTOP-9RGGUF05:~$ date +%D
07/15/21
```

4. Find out your machine's name and the version of the operating system.

```
abhisheks008@LAPTOP-9RGGUF05:~$ cat /etc/*-release
DISTRIB_ID=Ubuntu
DISTRIB_RELEASE=20.04
DISTRIB_CODENAME=focal
DISTRIB_DESCRIPTION="Ubuntu 20.04.2 LTS"
NAME="Ubuntu"
VERSION="20.04.2 LTS (Focal Fossa)"
ID=ubuntu
ID_LIKE=debian
PRETTY_NAME="Ubuntu 20.04.2 LTS"
VERSION_ID="20.04"
HOME_URL="https://www.ubuntu.com/"
SUPPORT_URL="https://help.ubuntu.com/"
BUG_REPORT_URL="https://bugs.launchpad.net/ubuntu/"
PRIVACY_POLICY_URL="https://www.ubuntu.com/legal/terms-and-policies/privacy-policy"
VERSION_CODENAME=focal
UBUNTU_CODENAME=focal
```

5. Clear the screen and place the cursor at row 12, column 25.

```
abhisheks008@LAPTOP-9RGGUF05: ~  
abhisheks008@LAPTOP-9RGGUF05:~$ tput cup 12 25  
  
abhisheks008@LAPTOP-9RGGUF05:~$
```

6. Find out the users who are idling.

```
abhisheks008@LAPTOP-9RGGUF05:~$ w  
13:52:16 up 26 min, 0 users, load average: 0.52, 0.58, 0.59  
USER      TTY      FROM          LOGIN@  IDLE   JCPU   PCPU WHAT
```

7. Create a directory structure in your home directory (*maindirectory*, two subdirectories *directory1* and *directory2* under *maindirectory*) while being in your home directory.

```
abhisheks008@LAPTOP-9RGGUF05:~$ mkdir directory1  
abhisheks008@LAPTOP-9RGGUF05:~$ mkdir directory2  
abhisheks008@LAPTOP-9RGGUF05:~$ ls  
directory1 directory2
```

8. Change to the directory *directory2*.

```
abhisheks008@LAPTOP-9RGGUF05:~$ cd directory2  
abhisheks008@LAPTOP-9RGGUF05:~/directory2$
```

9. Create a file called *biodata* and store your name, age, gender in it.

```
abhisheks008@LAPTOP-9RGGUF05:~/directory2$ cat >biodata  
Hi, myself Abhishek Sharma  
I am 20 years old.  
My gender is Male  
abhisheks008@LAPTOP-9RGGUF05:~/directory2$ cat <biodata  
Hi, myself Abhishek Sharma  
I am 20 years old.  
My gender is Male
```

10. Make a copy of the *biodata* into another file *text* within the directory1.

```
abhisheks008@LAPTOP-9RGGUF05:~/directory1$ cat >biodata
my name is Abhishek Sharma
I am 20 years old
My gender is male.
abhisheks008@LAPTOP-9RGGUF05:~/directory1$ cp biodata text
abhisheks008@LAPTOP-9RGGUF05:~/directory1$ ls
biodata  text
abhisheks008@LAPTOP-9RGGUF05:~/directory1$ cat text
my name is Abhishek Sharma
I am 20 years old
My gender is male.
```

11. Move the *text* from *directory1* to *directory2* .

```
abhisheks008@LAPTOP-9RGGUF05:~/directory1$ mv biodata text directory2
```

12. Combine the content of *biodata* and *text* in another new file *datatext*.

```
abhisheks008@LAPTOP-9RGGUF05:~/directory1$ cat biodata text >datatext
abhisheks008@LAPTOP-9RGGUF05:~/directory1$ ls
biodata  datatext  text
abhisheks008@LAPTOP-9RGGUF05:~/directory1$ cat datatext
my name is Abhishek Sharma
I am 20 years old
My gender is male.
my name is Abhishek Sharma
I am 20 years old
My gender is male.
```

13. Rename the file *text* to *newtext*.

```
abhisheks008@LAPTOP-9RGGUF05:~/directory1$ mv text newtext
abhisheks008@LAPTOP-9RGGUF05:~/directory1$ ls
biodata  datatext  newtext
abhisheks008@LAPTOP-9RGGUF05:~/directory1$ cat newtext
my name is Abhishek Sharma
I am 20 years old
My gender is male.
```

14. Delete the directory *directory1*.

```
abhisheks008@LAPTOP-9RGGUF05:~$ ls
directory1  directory2
abhisheks008@LAPTOP-9RGGUF05:~$ rm -rf directory1
abhisheks008@LAPTOP-9RGGUF05:~$ ls
directory2
```

15. Display the calendar of current month, previous month and next month.

```
abhisheks008@LAPTOP-9RGGUF05:~$ cal -3
      June 2021           July 2021           August 2021
Su Mo Tu We Th Fr Sa  Su Mo Tu We Th Fr Sa  Su Mo Tu We Th Fr Sa
   1  2  3  4  5              1  2  3      1  2  3  4  5  6  7
  6  7  8  9 10 11 12    4  5  6  7  8  9 10    8  9 10 11 12 13 14
13 14 15 16 17 18 19   11 12 13 14 15 16 17   15 16 17 18 19 20 21
20 21 22 23 24 25 26   18 19 20 21 22 23 24   22 23 24 25 26 27 28
27 28 29 30           25 26 27 28 29 30 31   29 30 31
```