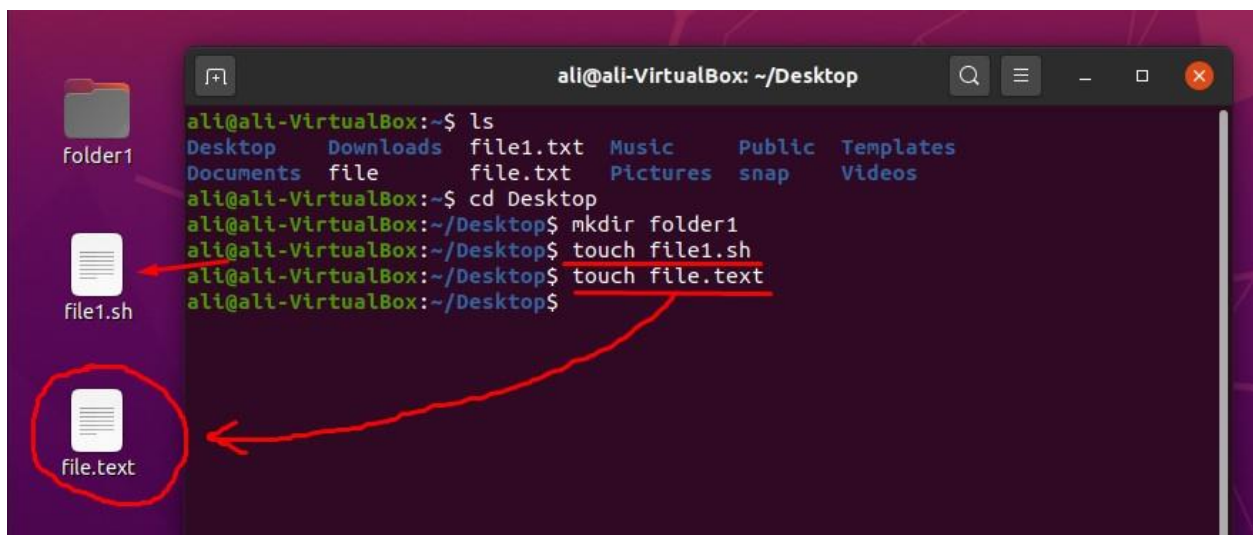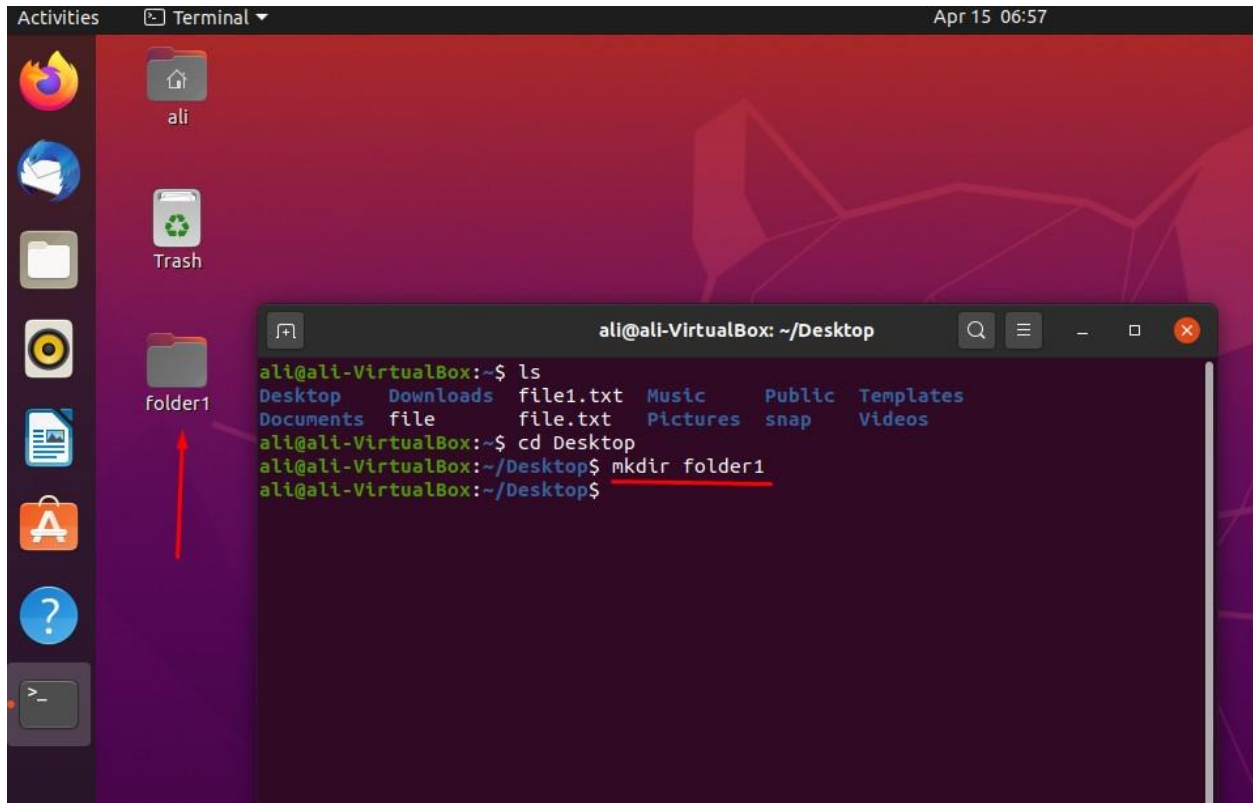# MD. Hazrat Ali
Id : 162-15-7902
Section : A
OS Lab Task 4

1. A command is an instruction given by a user telling a computer to do something, such as run a single program or a group of linked programs.

2. We use commands for performing various tasks.

3. One may use the "man 'command_name'" command to find out more about a particular command.

4. Some of the essential file commands and their use are:
nano- to create a new file

5. cat - for joining two or more files and seeing the combined output

6. mv - to move a file from one place to another, can also be used for renaming rm - for removing/deleting a file

7. cp - for copying a file from one place to another

8. grep - for searching a specific keyword

9. gzip - for compressing a file

10. gunzip - for decompressing a file

11. echo - for displaying various information

GNU nano 4.8   text1.sh   Modified
this is Hazrat Ali, Id : 162-15-7902

^G Get Help   ^O Write Out ^W Where Is   ^K Cut Text   ^J Justify   ^C Cur Pos
^X Exit   ^R Read File ^\ Replace   ^U Paste Text ^T To Spell   ^ Go To Line

```
ali@ali-VirtualBox:~/Desktop$ touch file1.sh
ali@ali-VirtualBox:~/Desktop$ touch file.text
ali@ali-VirtualBox:~/Desktop$ ls
file1.sh  file.text  folder1
ali@ali-VirtualBox:~/Desktop$ cd file.text
bash: cd: file.text: Not a directory
ali@ali-VirtualBox:~/Desktop$ ls -ls          for all file including hiddent file
total 4
0 -rw-rw-r-- 1 ali ali     0 Apr 15 06:58 file1.sh
0 -rw-rw-r-- 1 ali ali     0 Apr 15 06:58 file.text
4 drwxrwxr-x 2 ali ali 4096 Apr 15 06:57 folder1
ali@ali-VirtualBox:~/Desktop$ pwd        path directory
/home/ali/Desktop
ali@ali-VirtualBox:~/Desktop$ cat > file.text   for written in file.text
Hazrat Ali, Id : 162-15-7902
^Z
[1]+  Stopped                 cat > file.text
ali@ali-VirtualBox:~/Desktop$ cat file.text
Hazrat Ali, Id : 162-15-7902        for read data in file.text
ali@ali-VirtualBox:~/Desktop$ sudo nano text1.sh
[sudo] password for ali:
ali@ali-VirtualBox:~/Desktop$ ls
file1.sh  file.text  folder1  text1.sh
ali@ali-VirtualBox:~/Desktop$ cat file1.sh
ali@ali-VirtualBox:~/Desktop$ chmod +x file1.sh   to make file1.sh in executive file
ali@ali-VirtualBox:~/Desktop$ ls
file1.sh  file.text  folder1  text1.sh
ali@ali-VirtualBox:~/Desktop$ ls -la
total 20
drwxr-xr-x  3 ali   ali   4096 Apr 15 07:05 .
drwxr-xr-x 17 ali   ali   4096 Apr  7 06:23 ..
-rwxrwxr-x  1 ali   ali      0 Apr 15 06:58 file1.sh
-rw-rw-r--  1 ali   ali     29 Apr 15 07:02 file.text
drwxrwxr-x  2 ali   ali   4096 Apr 15 06:57 folder1
-rw-r--r--  1 root  root    37 Apr 15 07:05 text1.sh
ali@ali-VirtualBox:~/Desktop$
```

```
ali@ali-VirtualBox:~$ cat /etc/shells
# /etc/shells: valid login shells
/bin/sh
/bin/bash
/usr/bin/bash
/bin/rbash
/usr/bin/rbash
/bin/dash
/usr/bin/dash
ali@ali-VirtualBox:~$ which bash
/usr/bin/bash
ali@ali-VirtualBox:~$ ls
Desktop    Downloads   file1.txt   Music     Public   Templates
Documents  file        file.txt    Pictures  snap     Videos
ali@ali-VirtualBox:~$ cd Desktop
ali@ali-VirtualBox:~/Desktop$ touch hazratali.sh
ali@ali-VirtualBox:~/Desktop$ ls
folder1  hazratali.sh
ali@ali-VirtualBox:~/Desktop$ ls -la
total 16
drwxr-xr-x  3 ali ali 4096 Apr 15 07:45 .
drwxr-xr-x 17 ali ali 4096 Apr  7 06:23 ..
drwxrwxr-x  2 ali ali 4096 Apr 15 06:57 folder1
-rw-rw-r--  1 ali ali   61 Apr 15 07:45 hazratali.sh
ali@ali-VirtualBox:~/Desktop$ chmod +x hazratali.sh
ali@ali-VirtualBox:~/Desktop$ ls
folder1  hazratali.sh
ali@ali-VirtualBox:~/Desktop$ ls -la
total 16
drwxr-xr-x  3 ali ali 4096 Apr 15 07:45 .
drwxr-xr-x 17 ali ali 4096 Apr  7 06:23 ..
drwxrwxr-x  2 ali ali 4096 Apr 15 06:57 folder1
-rwxrwxr-x  1 ali ali   61 Apr 15 07:45 hazratali.sh
ali@ali-VirtualBox:~/Desktop$ ./hazratali.sh
this is Hazrat Ali, Id: 162-15-7902
ali@ali-VirtualBox:~/Desktop$
```

```
GNU nano 4.8                    hazratali.sh                        Modified
#! /usr/bin/bash

echo "this is Hazrat Ali, Id: 162-15-7902"
echo "Section : A"
echo "Dept : CSE"
echo "Course : Operation System"




File Name to Write: hazratali.sh
^G Get Help      M-D DOS Format    M-A Append      M-B Backup File
^C Cancel        M-M Mac Format    M-P Prepend     ^T To Files
```

```
drwxr-xr-x 17 ali ali 4096 Apr  7 06:23 ..
drwxrwxr-x  2 ali ali 4096 Apr 15 06:57 folder1
-rwxrwxr-x  1 ali ali   61 Apr 15 07:45 hazratali.sh
ali@ali-VirtualBox:~/Desktop$ ./hazratali.sh
this is Hazrat Ali, Id: 162-15-7902
ali@ali-VirtualBox:~/Desktop$ nano hazratali.sh
ali@ali-VirtualBox:~/Desktop$ ./hazratali.sh
this is Hazrat Ali, Id: 162-15-7902
Section : A
Dept : CSE
Course : Operation System
ali@ali-VirtualBox:~/Desktop$
```