



# Lab report-02

Basic commands of Linux Operating System

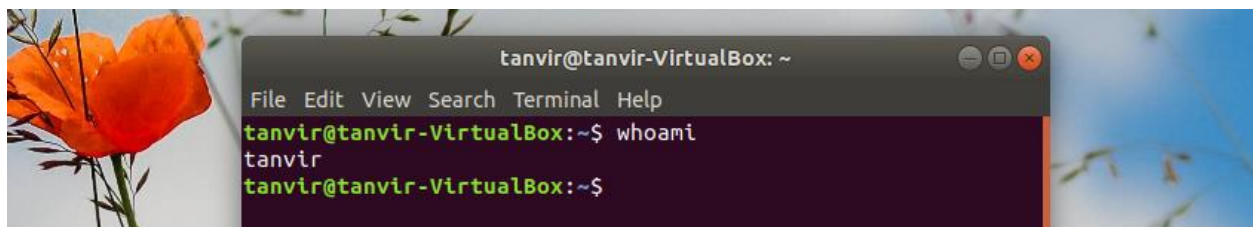
Experiment NO : 02

Experiment Name : Basic Command of Linux Operating System.

Introduction :

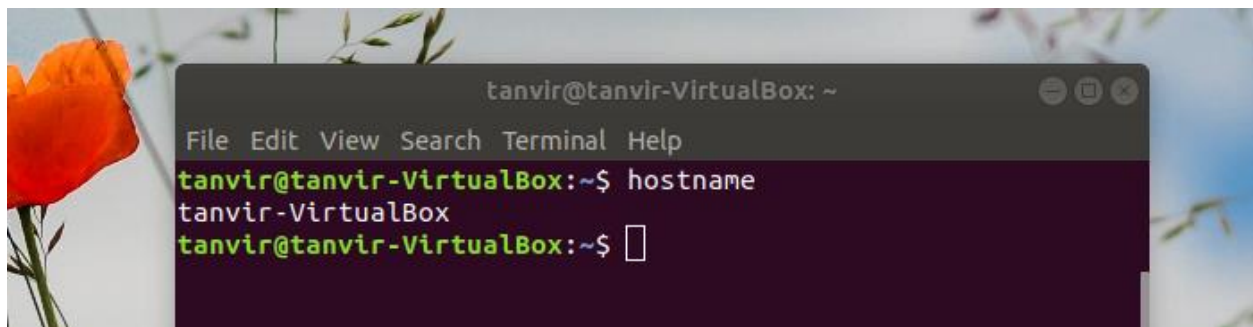
# Basic Linux Command

**1) whoami** : This command prints the username associated with the current effective user ID.

A screenshot of a terminal window titled 'tanvir@tanvir-VirtualBox: ~'. The window has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The terminal shows the command 'whoami' being entered and executed, with the output 'tanvir' displayed on the next line.

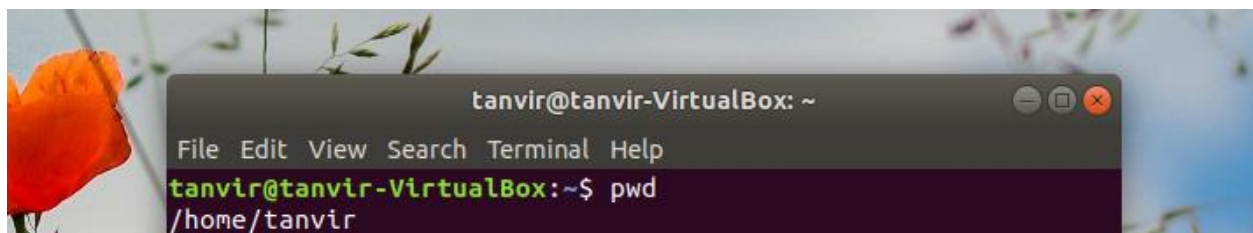
```
tanvir@tanvir-VirtualBox: ~  
File Edit View Search Terminal Help  
tanvir@tanvir-VirtualBox:~$ whoami  
tanvir  
tanvir@tanvir-VirtualBox:~$
```

**2) hostname** : The **hostname** command shows or sets the system hostname.

A screenshot of a terminal window titled 'tanvir@tanvir-VirtualBox: ~'. The window has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The terminal shows the command 'hostname' being entered and executed, with the output 'tanvir-VirtualBox' displayed on the next line.

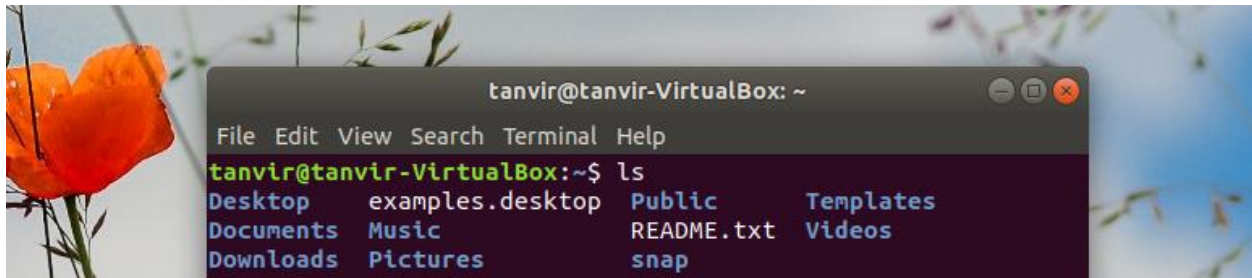
```
tanvir@tanvir-VirtualBox: ~  
File Edit View Search Terminal Help  
tanvir@tanvir-VirtualBox:~$ hostname  
tanvir-VirtualBox  
tanvir@tanvir-VirtualBox:~$
```

**3) pwd**: hort for **print working directory**, **pwd** is a Linux, Unix, and FTP command to print the directory you're currently working in when at the command line.

A screenshot of a terminal window titled 'tanvir@tanvir-VirtualBox: ~'. The window has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The terminal shows the command 'pwd' being entered and executed, with the output '/home/tanvir' displayed on the next line.

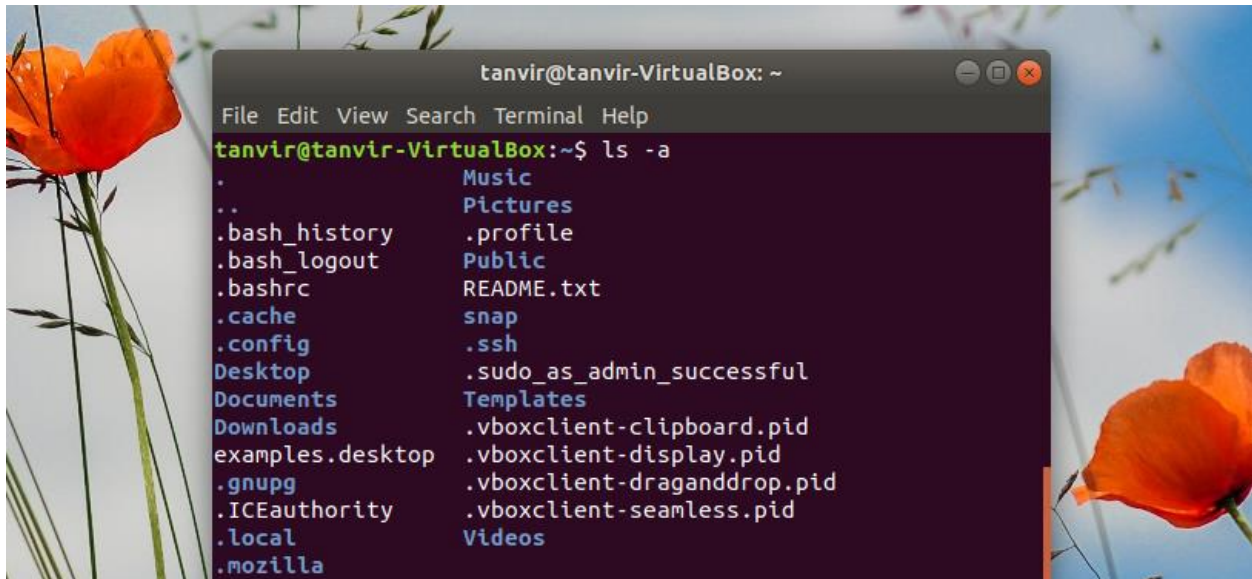
```
tanvir@tanvir-VirtualBox: ~  
File Edit View Search Terminal Help  
tanvir@tanvir-VirtualBox:~$ pwd  
/home/tanvir
```

**4) ls** : ls lists the files in the current working folder.

A terminal window titled 'tanvir@tanvir-VirtualBox: ~' with a menu bar (File, Edit, View, Search, Terminal, Help). The prompt is 'tanvir@tanvir-VirtualBox:~\$'. The command 'ls' has been executed, displaying a list of files and directories in a color-coded format: Desktop, examples.desktop, Public, Templates, Documents, Music, README.txt, Videos, Downloads, Pictures, and snap.

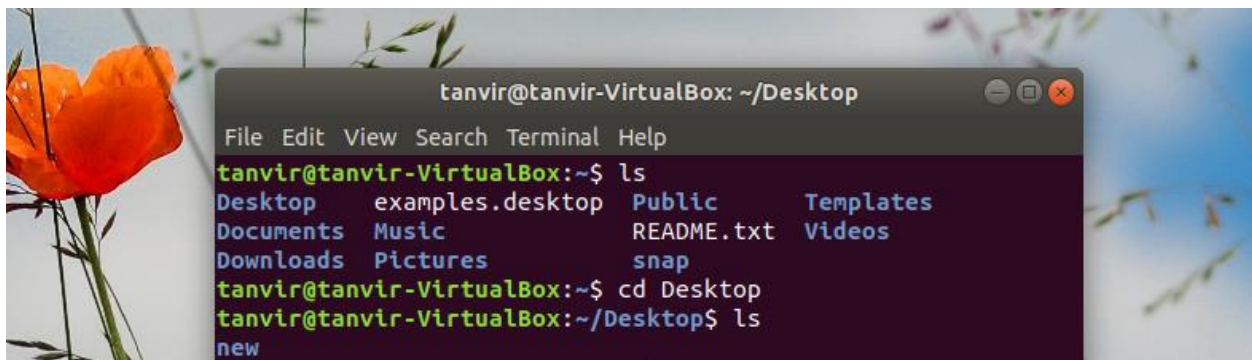
```
tanvir@tanvir-VirtualBox: ~  
File Edit View Search Terminal Help  
tanvir@tanvir-VirtualBox:~$ ls  
Desktop      examples.desktop  Public      Templates  
Documents    Music             README.txt  Videos  
Downloads    Pictures          snap
```

**5) ls -a**: list all files including hidden file starting with '.'

A terminal window titled 'tanvir@tanvir-VirtualBox: ~' with a menu bar (File, Edit, View, Search, Terminal, Help). The prompt is 'tanvir@tanvir-VirtualBox:~\$'. The command 'ls -a' has been executed, displaying a list of all files and directories, including hidden ones starting with a dot. The output is color-coded: ., ., .bash\_history, .bash\_logout, .bashrc, .cache, .config, Desktop, Documents, Downloads, examples.desktop, .gnupg, .ICEauthority, .local, .mozilla, Music, Pictures, .profile, Public, README.txt, snap, .ssh, .sudo\_as\_admin\_successful, Templates, .vboxclient-clipboard.pid, .vboxclient-display.pid, .vboxclient-draganddrop.pid, .vboxclient-seamless.pid, and Videos.

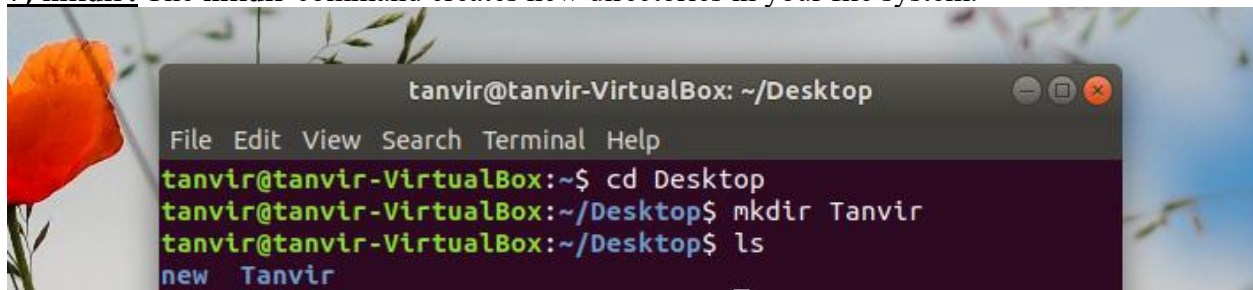
```
tanvir@tanvir-VirtualBox: ~  
File Edit View Search Terminal Help  
tanvir@tanvir-VirtualBox:~$ ls -a  
.  
..  
.bash_history  
.bash_logout  
.bashrc  
.cache  
.config  
Desktop  
Documents  
Downloads  
examples.desktop  
.gnupg  
.ICEauthority  
.local  
.mozilla  
Music  
Pictures  
.profile  
Public  
README.txt  
snap  
.ssh  
.sudo_as_admin_successful  
Templates  
.vboxclient-clipboard.pid  
.vboxclient-display.pid  
.vboxclient-draganddrop.pid  
.vboxclient-seamless.pid  
Videos
```

**6) cd**: The **cd** command, which stands for "change directory", changes the shell's current working directory .

A terminal window titled 'tanvir@tanvir-VirtualBox: ~/Desktop' with a menu bar (File, Edit, View, Search, Terminal, Help). The prompt is 'tanvir@tanvir-VirtualBox:~\$'. The command 'ls' has been executed, displaying a list of files and directories: Desktop, examples.desktop, Public, Templates, Documents, Music, README.txt, Videos, Downloads, Pictures, and snap. Then, the command 'cd Desktop' has been executed, and the prompt has changed to 'tanvir@tanvir-VirtualBox:~/Desktop\$'. Finally, the command 'ls' has been executed again, displaying a list of files and directories: new.

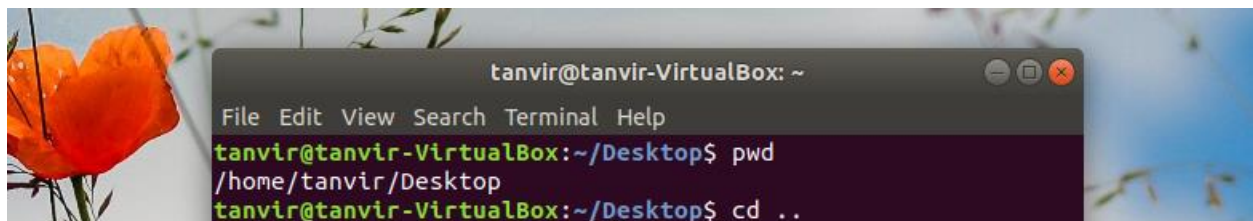
```
tanvir@tanvir-VirtualBox: ~/Desktop  
File Edit View Search Terminal Help  
tanvir@tanvir-VirtualBox:~$ ls  
Desktop      examples.desktop  Public      Templates  
Documents    Music             README.txt  Videos  
Downloads    Pictures          snap  
tanvir@tanvir-VirtualBox:~$ cd Desktop  
tanvir@tanvir-VirtualBox:~/Desktop$ ls  
new
```

7) **mkdir**: The **mkdir** command creates new directories in your file system.

A terminal window titled 'tanvir@tanvir-VirtualBox: ~/Desktop' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the following commands and output:

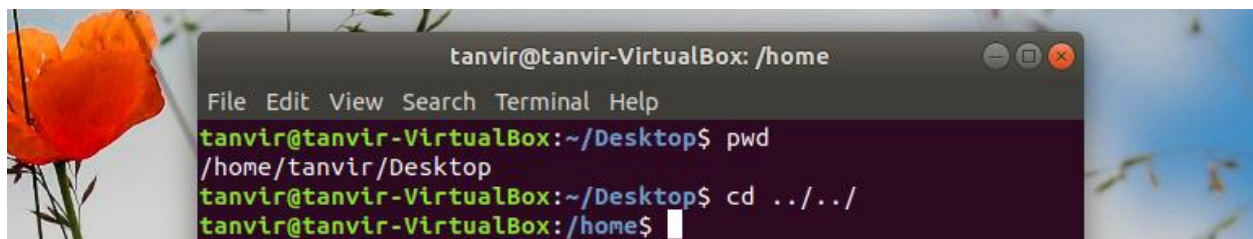
```
tanvir@tanvir-VirtualBox:~$ cd Desktop
tanvir@tanvir-VirtualBox:~/Desktop$ mkdir Tanvir
tanvir@tanvir-VirtualBox:~/Desktop$ ls
new  Tanvir
```

8) **cd ..** : Move one directories up.

A terminal window titled 'tanvir@tanvir-VirtualBox: ~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the following commands and output:

```
tanvir@tanvir-VirtualBox:~/Desktop$ pwd
/home/tanvir/Desktop
tanvir@tanvir-VirtualBox:~/Desktop$ cd ..
```

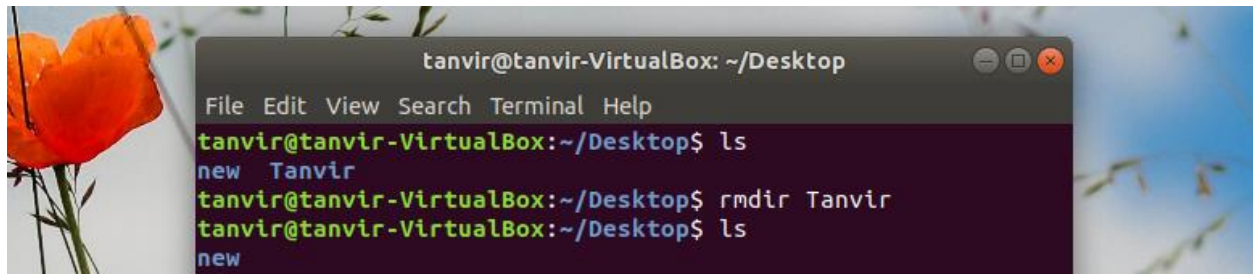
9) **cd ../..** : Move two directories up.

A terminal window titled 'tanvir@tanvir-VirtualBox: /home' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the following commands and output:

```
tanvir@tanvir-VirtualBox:~/Desktop$ pwd
/home/tanvir/Desktop
tanvir@tanvir-VirtualBox:~/Desktop$ cd ../../
tanvir@tanvir-VirtualBox:/home$
```

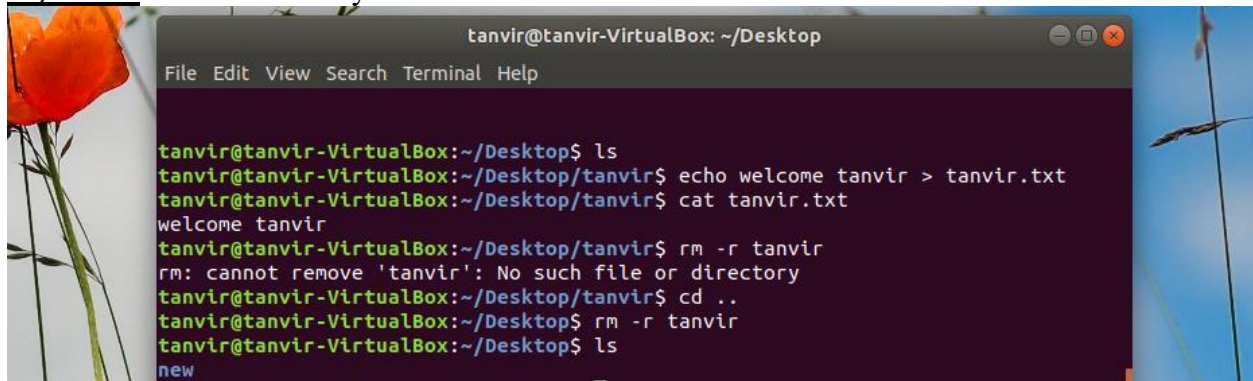


**10) rmdir:** remove a directory.



```
tanvir@tanvir-VirtualBox: ~/Desktop
File Edit View Search Terminal Help
tanvir@tanvir-VirtualBox:~/Desktop$ ls
new Tanvir
tanvir@tanvir-VirtualBox:~/Desktop$ rmdir Tanvir
tanvir@tanvir-VirtualBox:~/Desktop$ ls
new
```

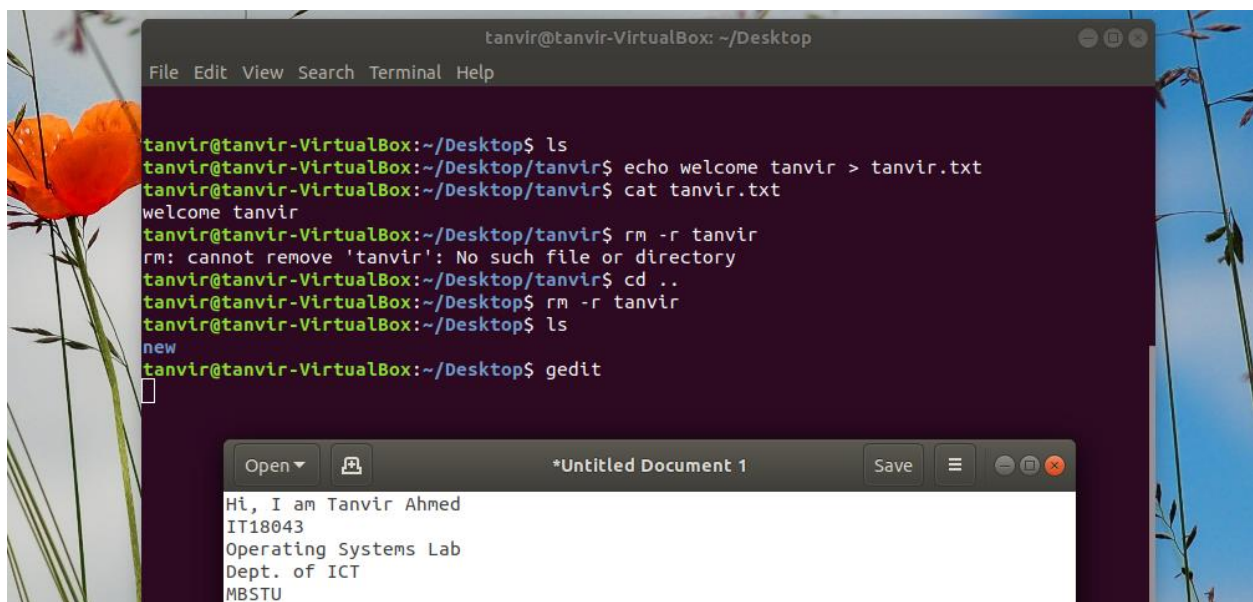
**11) rm -r:** remove directory with its content.



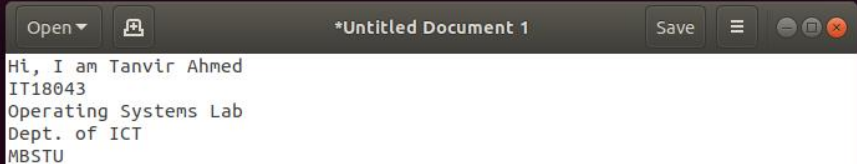
```
tanvir@tanvir-VirtualBox: ~/Desktop
File Edit View Search Terminal Help
tanvir@tanvir-VirtualBox:~/Desktop$ ls
tanvir@tanvir-VirtualBox:~/Desktop/tanvir$ echo welcome tanvir > tanvir.txt
tanvir@tanvir-VirtualBox:~/Desktop/tanvir$ cat tanvir.txt
welcome tanvir
tanvir@tanvir-VirtualBox:~/Desktop/tanvir$ rm -r tanvir
rm: cannot remove 'tanvir': No such file or directory
tanvir@tanvir-VirtualBox:~/Desktop/tanvir$ cd ..
tanvir@tanvir-VirtualBox:~/Desktop$ rm -r tanvir
tanvir@tanvir-VirtualBox:~/Desktop$ ls
new
```

**12) gedit :** Working with text editors:

\$ gedit ---> its an editor

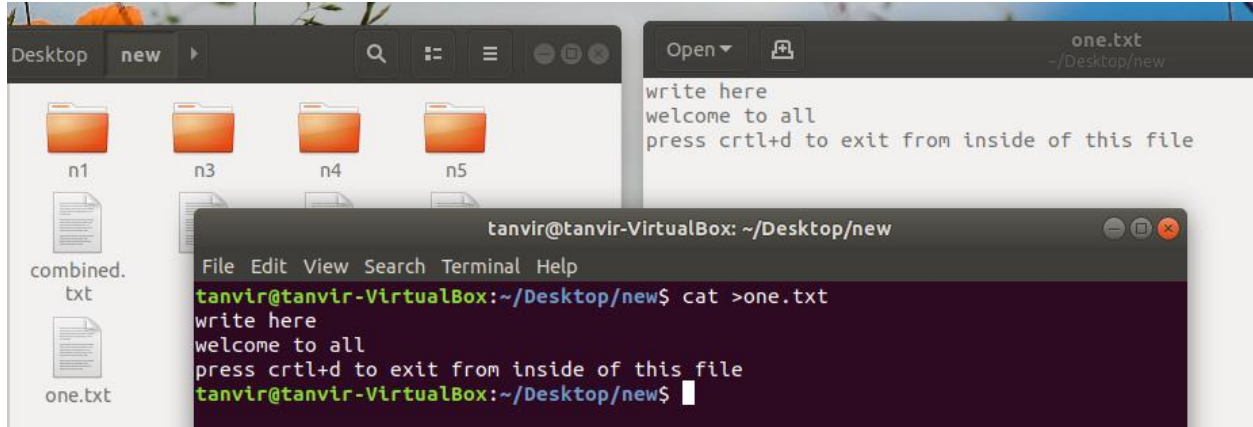


```
tanvir@tanvir-VirtualBox: ~/Desktop
File Edit View Search Terminal Help
tanvir@tanvir-VirtualBox:~/Desktop$ ls
tanvir@tanvir-VirtualBox:~/Desktop/tanvir$ echo welcome tanvir > tanvir.txt
tanvir@tanvir-VirtualBox:~/Desktop/tanvir$ cat tanvir.txt
welcome tanvir
tanvir@tanvir-VirtualBox:~/Desktop/tanvir$ rm -r tanvir
rm: cannot remove 'tanvir': No such file or directory
tanvir@tanvir-VirtualBox:~/Desktop/tanvir$ cd ..
tanvir@tanvir-VirtualBox:~/Desktop$ rm -r tanvir
tanvir@tanvir-VirtualBox:~/Desktop$ ls
new
tanvir@tanvir-VirtualBox:~/Desktop$ gedit
```

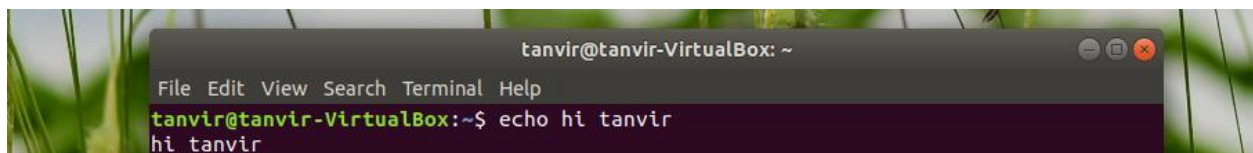


```
*Untitled Document 1
Save
Hi, I am Tanvir Ahmed
IT18043
Operating Systems Lab
Dept. of ICT
MBSTU
```

**13) cat:** creates new file.



**14) echo:** show something on the terminal.



**15) sudo:** sudo (Super User DO) command in Linux is generally used as a prefix of some command that only superuser are allowed to run.

