

Assignment 1. (a)

Basic Linux Commands

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Command	Description	Options
1) ls	List information about the FILEs (the current directory by default).	<ul style="list-style-type: none"> -a, --all -A, --almost-all --author -t -r

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nebul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~$ ls
Desktop  Documents  Downloads  MPLABXProjects  Music  Pictures  Public  snap  Templates  Videos
nebul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~$ ls -a
.         .bash_logout .config  .dotnet  .gnupg   .local   .mchp_packs .mplab_scripts .mysql_history .profile  .ssh      .sudo_as_admin_successful  Videos
..        .bashrc     Desktop  Downloads .java    .mchp_cm .mchp_docs  .mplab_projects .pkls       .snap     .ssh      .sudo_as_admin_successful  .vscode
.         .bash_history .cache   Documents .gnome   .lesshtsQ .mchp_docs  .mplab_projects .pkls       .snap     .ssh      .sudo_as_admin_successful  .vscode
nebul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~$ ls -l
total 40
drwxr-xr-x 3 nebul_nikude nebul_nikude nebul_nikude 4096 Jul  8 19:06 Desktop
drwxr-xr-x 2 nebul_nikude nebul_nikude nebul_nikude 4096 Sep 28 2023 Documents
drwxr-xr-x 2 nebul_nikude nebul_nikude nebul_nikude 4096 Jul  8 19:23 Downloads
drwxrwxr-x 3 nebul_nikude nebul_nikude nebul_nikude 4096 Jan 16 20:49 MPLABXProjects
drwxr-xr-x 2 nebul_nikude nebul_nikude nebul_nikude 4096 Sep 28 2023 Music
drwxr-xr-x 3 nebul_nikude nebul_nikude nebul_nikude 4096 Apr  7 18:42 Pictures
drwxr-xr-x 2 nebul_nikude nebul_nikude nebul_nikude 4096 Sep 28 2023 Public
drwx----- 7 nebul_nikude nebul_nikude nebul_nikude 4096 Jan 22 20:15 snap
drwxr-xr-x 2 nebul_nikude nebul_nikude nebul_nikude 4096 Sep 28 2023 Templates
drwxr-xr-x 2 nebul_nikude nebul_nikude nebul_nikude 4096 Sep 28 2023 Videos
nebul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~$ ls -t
Downloads Desktop Pictures snap MPLABXProjects Documents Music Public Templates Videos
nebul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~$ ls -r
Videos Templates snap Public Pictures Music MPLABXProjects Downloads Documents Desktop
nebul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~$

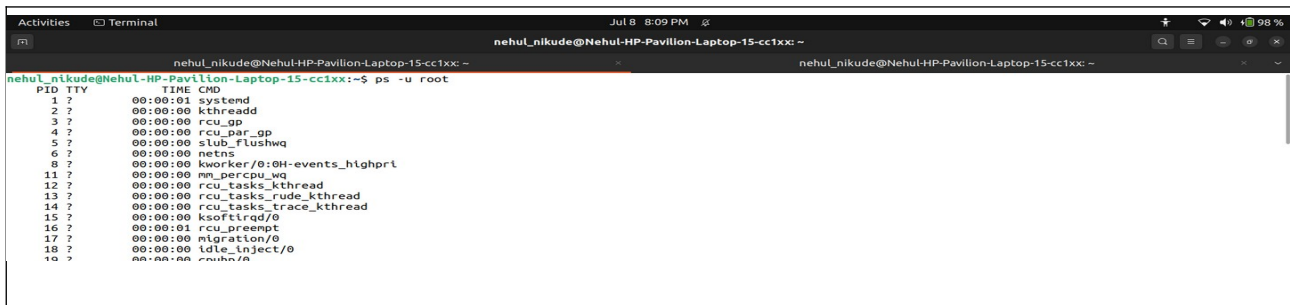
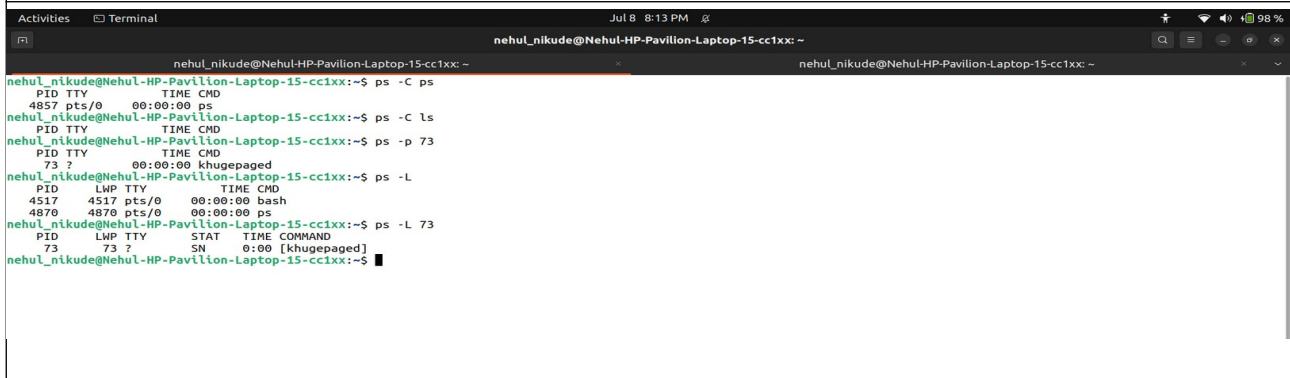
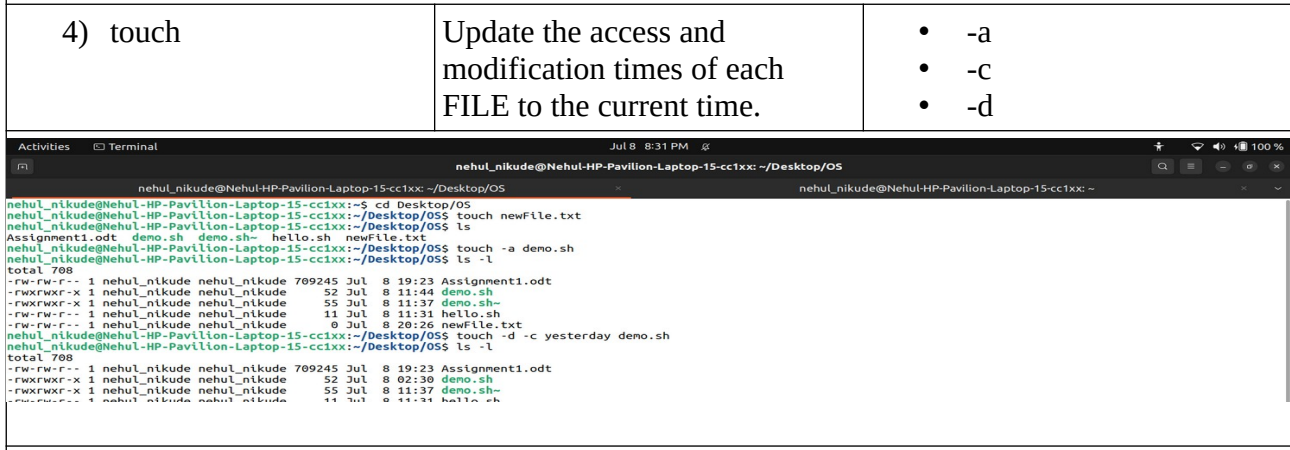
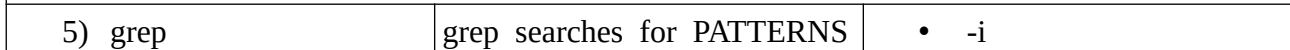
```

2) ps	ps displays information about a selection of the active processes.	<ul style="list-style-type: none"> -e -u -C -p -e
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nebul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~$ ps
  PID TTY          TIME CMD
 4517 pts/0    00:00:00 bash
 4770 pts/0    00:00:00 ps
nebul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~$ ps -e
  PID TTY          TIME CMD
    1 ?        00:00:01 systemd
    2 ?        00:00:00 kthreadd
    3 ?        00:00:00 rcu_gp
    4 ?        00:00:00 rcu_par_gp
    5 ?        00:00:00 slub_flushwq
    6 ?        00:00:00 netns
    8 ?        00:00:00 kworker/0:0H-events_highpri
   11 ?        00:00:00 mm_percpu_wq
   12 ?        00:00:00 rcu_tasks_kthread
   13 ?        00:00:00 rcu_tasks_rude_kthread
   14 ?        00:00:00 rcu_tasks_trace_kthread
   15 ?        00:00:00 ksoftirqd/0
   16 ?        00:00:01 rcu_preempt
   17 ?        00:00:00 migration/0
   18 ?        00:00:00 idle Inetnet/0

```

		
		
<p>3) echo</p>	<p>Echo the STRING(s) to standard output.</p>	<ul style="list-style-type: none"> • -n • -e • -E
		
<p>4) touch</p>	<p>Update the access and modification times of each FILE to the current time.</p>	<ul style="list-style-type: none"> • -a • -c • -d
		
<p>5) grep</p>	<p>grep searches for PATTERNS</p>	<ul style="list-style-type: none"> • -i

	in each FILE.	<ul style="list-style-type: none">• -n• -O• -C• -V
<div><div>ActivitiesTerminalJul 8 8:47 PM</div><div>nehuL_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop/OS</div><div>nehuL_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop/OS</div><div>nehuL_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS\$ grep "ferrari" Cars.txt</div><div>ferrari is a sports car manufacturer</div><div>ferrari SP3 monza is their latest halo car</div><div>Lamborghini is better than ferrari</div><div>nehuL_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS\$ grep -i "ferrari" Cars.txt</div><div>ferrari is a sports car manufactureEnzo Ferrari is the founder.</div><div>ferrari SP3 Monza is their latest halo car</div><div>ferrari</div><div>Test words: FeRRaRI, feRRari, ferrARI</div><div>Lamborghini is better than ferrari</div><div>nehuL_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS\$ grep -n "ferrari" Cars.txt</div><div>1:ferrari is a sports car manufacturer.</div><div>5:ferrari SP3 Monza is their latest halo car</div><div>7:ferrari</div><div>11:Lamborghini is better than ferrari</div><div>nehuL_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS\$ grep -o "ferrari" Cars.txt</div><div>ferrari</div><div>ferrari</div><div>ferrari</div><div>nehuL_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS\$ grep -c "ferrari" Cars.txt</div><div>4</div><div>nehuL_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS\$ grep -v "ferrari" Cars.txt</div><div>Enzo Ferrari is the founder.</div><div>Test words: FeRRaRI, feRRari, ferrARI</div><div>nehuL_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS\$ grep -v -i "ferrari" Cars.txt</div><div>nehuL_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS\$</div></div>		
6) sed	Sed is a stream editor. A stream editor is used to perform basic text transformations on an input stream (a file or input from a pipeline).	<ul style="list-style-type: none">• -n• -i
<div><div>ActivitiesTerminalJul 8 10:57 PM</div><div>nehuL_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop/OS</div><div>nehuL_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS</div><div>nehuL_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS\$ sed 's/unix/linux/' OS.txt</div><div>linux is great os. unix is opensource. unix is free os.</div><div>learn operating system.</div><div>linux linux which one you choose.</div><div>linux is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.</div><div>nehuL_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS\$ sed -n 's/unix/linux/' OS.txt</div><div>nehuL_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS\$ cat OS.txt</div><div>unix is great os. unix is opensource. unix is free os.</div><div>learn operating system.</div><div>unix linux which one you choose.</div><div>linux is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.</div><div>nehuL_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS\$ sed -n 's/unix/linux/p' OS.txt</div><div>linux is great os. unix is opensource. unix is free os.</div><div>linux linux which one you choose.</div><div>linux is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.</div><div>nehuL_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS\$ sed -i 's/unix/linux/' OS.txt</div><div>nehuL_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS\$ cat OS.txt</div><div>linux is great os. unix is opensource. unix is free os.</div><div>learn operating system.</div><div>linux linux which one you choose.</div><div>linux is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.</div><div>nehuL_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS\$</div></div>		
7) cat	Concatenate FILE(s) to standard output.	<ul style="list-style-type: none">• -n• -e

```

nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop/OS
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS$ cat OS.txt
linux is great os. unix is opensource. unix is free os.
learn operating system.
linux linux which one you choose.
linux is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS$ cat -n OS.txt
 1 linux is great os. unix is opensource. unix is free os.
 2 learn operating system.
 3 linux linux which one you choose.
 4 linux is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS$ cat -e OS.txt
linux is great os. unix is opensource. unix is free os.$
learn operating system.$
linux linux which one you choose.$
linux is easy to learn.unix is a multiuser os.Learn unix .unix is a powerful.$
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS$

```

8) fork	fork() creates a new process by duplicating the calling process. The new process is referred to as the child process. The calling process is referred to as the parent process.	NA
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1#include <stdio.h>
2#include <unistd.h>
3
4int main() {
5    pid_t pid = fork();
6
7    if (pid < 0) {
8        fprintf(stderr, "Fork failed!\n");
9        return 1;
10   } else if (pid == 0) {
11       // Child process
12       printf("I am the child process with PID: %d\n", getpid());
13   } else {
14       // Parent process
15       printf("I am the parent process with PID: %d\n", getpid());
16       printf("My child process PID: %d\n", pid);
17   }
18
19   return 0;
20 }
21

```

```

nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS$ gcc fork_example.c -o
gcc: error: missing filename after '-o'
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS$ gcc fork_example.c -o fork_example
cc1: fatal error: fork_example.c: No such file or directory
compilation terminated.
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS$ gcc fork_example.c -o fork_example
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS$ ./fork_example
I am the parent process with PID: 8546
My child process PID: 8547
I am the child process with PID: 8547
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS$

```

9) chmod	chmod changes the file mode bits of each given file according to mode, which can be either a symbolic representation of changes to make, or an octal number representing the bit pattern for the new mode bits.	<ul style="list-style-type: none"> -R -v -f -c
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```
Activities Terminal Jul 9 7:38 AM
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop$ chmod -R 777 OS
chmod: cannot access 'OS': No such file or directory
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop$ cd
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop$ cd Desktop
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop$ chmod -R 777 OS
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop$ chmod -R -v 777 OS
mode of 'OS' retained as 0777 (rwxrwxrwx)
mode of 'OS/fork_example.c' retained as 0777 (rwxrwxrwx)
mode of 'OS/fork_example' retained as 0777 (rwxrwxrwx)
mode of 'OS/Cars.txt-' retained as 0777 (rwxrwxrwx)
mode of 'OS/hello.sh' retained as 0777 (rwxrwxrwx)
mode of 'OS/OS.txt' retained as 0777 (rwxrwxrwx)
mode of 'OS/demo.sh' retained as 0777 (rwxrwxrwx)
mode of 'OS/./lock.Assignment1.odt#' retained as 0777 (rwxrwxrwx)
mode of 'OS/demo.sh-' retained as 0777 (rwxrwxrwx)
mode of 'OS/Assignment1.odt' retained as 0777 (rwxrwxrwx)
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop$ chmod -R -c 777 OS
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop$ chmod -R -f 777 OS
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop$
```

10) chown

chown changes the user and/or group ownership of each given file.

- -c
- -f
- -v
- -R

```
Activities Terminal Jul 9 7:54 AM
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop$ chown -v nebul_nikude demo.sh
ownership of 'demo.sh' retained as nebul_nikude
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop$ cd
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop$ chown -R -v root OS
chown: changing ownership of 'OS/fork_example.c': Operation not permitted
failed to change ownership of 'OS/fork_example.c' from nebul_nikude to root
chown: changing ownership of 'OS/fork_example': Operation not permitted
failed to change ownership of 'OS/fork_example' from nebul_nikude to root
chown: changing ownership of 'OS/Cars.txt-': Operation not permitted
chown: changing ownership of 'OS/hello.sh': Operation not permitted
chown: changing ownership of 'OS/OS.txt': Operation not permitted
chown: changing ownership of 'OS/demo.sh': Operation not permitted
chown: changing ownership of 'OS/./lock.Assignment1.odt#': Operation not permitted
chown: changing ownership of 'OS/demo.sh-': Operation not permitted
chown: changing ownership of 'OS/Assignment1.odt': Operation not permitted
chown: changing ownership of 'OS/Assignment1.odt' from nebul_nikude to root
chown: changing ownership of 'OS': Operation not permitted
chown: changing ownership of 'OS' from root to nebul_nikude
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop$ chown -R -v nebul_nikude OS
chown: changing ownership of 'OS/fork_example.c': Operation not permitted
failed to change ownership of 'OS/fork_example.c' from root to nebul_nikude
chown: changing ownership of 'OS/fork_example': Operation not permitted
failed to change ownership of 'OS/fork_example' from root to nebul_nikude
chown: changing ownership of 'OS/Cars.txt-': Operation not permitted
failed to change ownership of 'OS/Cars.txt-' from root to nebul_nikude
chown: changing ownership of 'OS/hello.sh': Operation not permitted
failed to change ownership of 'OS/hello.sh' from root to nebul_nikude
chown: changing ownership of 'OS/OS.txt': Operation not permitted
failed to change ownership of 'OS/OS.txt' from root to nebul_nikude
chown: changing ownership of 'OS/demo.sh': Operation not permitted
failed to change ownership of 'OS/demo.sh' from root to nebul_nikude
chown: changing ownership of 'OS/./lock.Assignment1.odt#': Operation not permitted
failed to change ownership of 'OS/./lock.Assignment1.odt#' from root to nebul_nikude
chown: changing ownership of 'OS/demo.sh-': Operation not permitted
failed to change ownership of 'OS/demo.sh-' from root to nebul_nikude
chown: changing ownership of 'OS/Assignment1.odt': Operation not permitted
failed to change ownership of 'OS/Assignment1.odt' from root to nebul_nikude
chown: changing ownership of 'OS': Operation not permitted
failed to change ownership of 'OS' from root to nebul_nikude
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop$ chown -R -v -f nebul_nikude OS
failed to change ownership of 'OS/fork_example.c' from root to nebul_nikude
failed to change ownership of 'OS/fork_example' from root to nebul_nikude
failed to change ownership of 'OS/Cars.txt-' from root to nebul_nikude
failed to change ownership of 'OS/hello.sh' from root to nebul_nikude
failed to change ownership of 'OS/OS.txt' from root to nebul_nikude
failed to change ownership of 'OS/demo.sh' from root to nebul_nikude
failed to change ownership of 'OS/./lock.Assignment1.odt#' from root to nebul_nikude
failed to change ownership of 'OS/demo.sh-' from root to nebul_nikude
failed to change ownership of 'OS/Assignment1.odt' from root to nebul_nikude
```

11) pwd

Print the full filename of the current working directory.

- -L
- -P

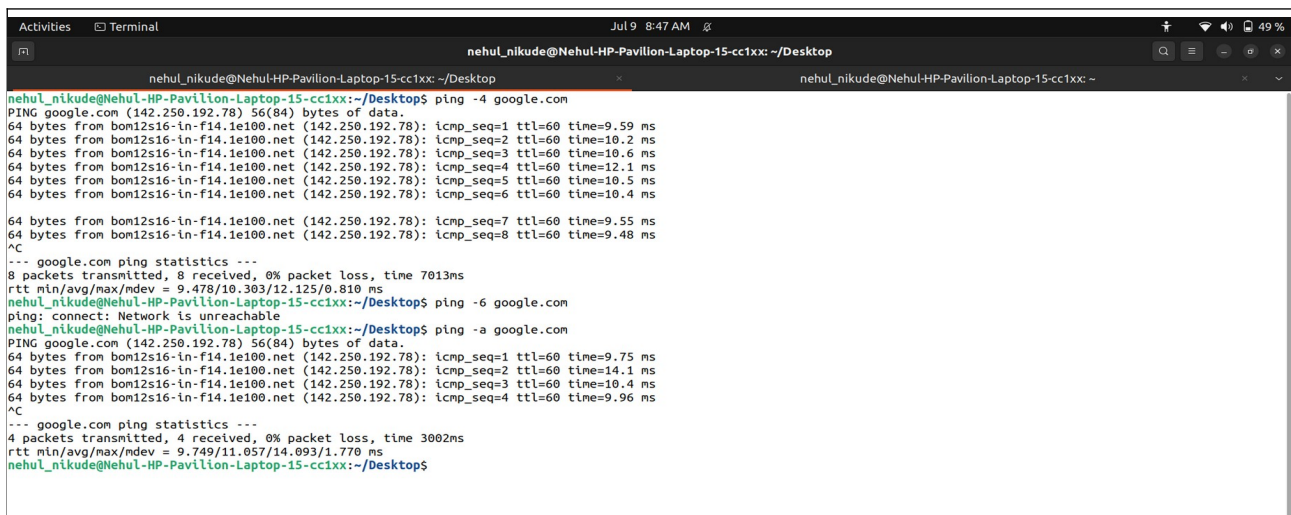
```
Activities Terminal Jul 9 8:18 AM
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop$ pwd
/home/nehul_nikude/Desktop
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop$ pwd -L
/home/nehul_nikude/Desktop
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop$ pwd -P
/home/nehul_nikude/Desktop
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop$
```

12) locate

plocate finds all files on the

- -b

	system matching the given pattern.	<ul style="list-style-type: none"> -C -i
13) kill	kill - send a signal to a process The default signal for kill is TERM.	<ul style="list-style-type: none"> -s <signal> -l
14) ifconfig	Ifconfig is used to configure the kernel-resident network interfaces.	<ul style="list-style-type: none"> -a -s
15) ping	ping uses the ICMP protocol's mandatory ECHO_REQUEST datagram to elicit an ICMP ECHO_RESPONSE from a host or gateway.	<ul style="list-style-type: none"> -4 -6 -a

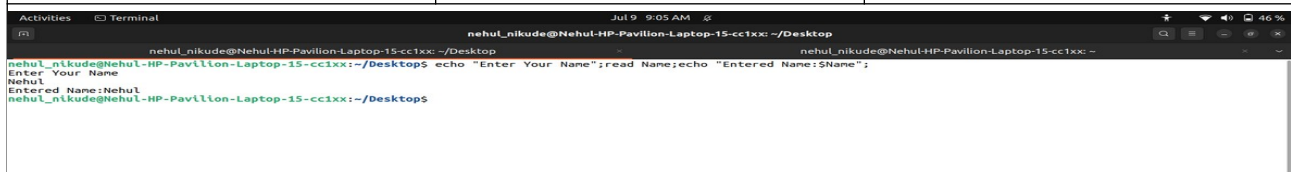


```

nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop$ ping -4 google.com
PING google.com (142.250.192.78) 56(84) bytes of data.
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=1 ttl=60 time=9.59 ms
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=2 ttl=60 time=10.2 ms
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=3 ttl=60 time=10.6 ms
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=4 ttl=60 time=12.1 ms
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=5 ttl=60 time=10.5 ms
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=6 ttl=60 time=10.4 ms
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=7 ttl=60 time=9.55 ms
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=8 ttl=60 time=9.48 ms
^C
--- google.com ping statistics ---
8 packets transmitted, 8 received, 0% packet loss, time 7013ms
rtt min/avg/max/mdev = 9.478/10.303/12.125/0.810 ms
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop$ ping -6 google.com
ping: connect: Network is unreachable
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop$ ping -a google.com
PING google.com (142.250.192.78) 56(84) bytes of data.
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=1 ttl=60 time=9.75 ms
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=2 ttl=60 time=14.1 ms
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=3 ttl=60 time=10.4 ms
64 bytes from bom12s16-in-f14.1e100.net (142.250.192.78): icmp_seq=4 ttl=60 time=9.96 ms
^C
--- google.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3002ms
rtt min/avg/max/mdev = 9.749/11.057/14.093/1.770 ms
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop$

```

16) read	read() attempts to read up to count bytes from file descriptor fd into the buffer starting at buf.	NA
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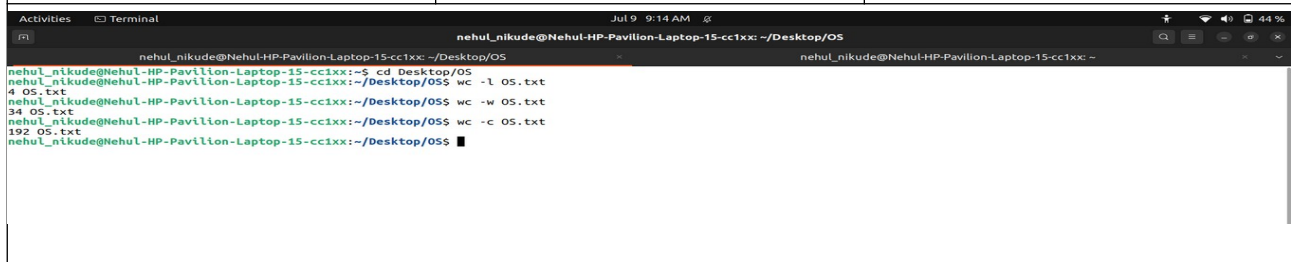


```

nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop$ echo "Enter Your Name"; read Name; echo "Entered Name:$Name";
Enter Your Name
Nehul
Entered Name:Nehul
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop$

```

17) clear	clear clears your screen if this is possible, including its scrollbar buffer.	<ul style="list-style-type: none"> -T -V -x
18) exit	exit - cause normal process termination.	NA
19) wc	Print newline, word, and byte counts for each FILE, and a total line if more than one FILE is specified.	<ul style="list-style-type: none"> -l -c -w



```

nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS$ cd Desktop/OS
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS$ wc -l 05.txt
4 05.txt
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS$ wc -w 05.txt
34 05.txt
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS$ wc -c 05.txt
192 05.txt
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS$

```

20) sort	Write sorted concatenation of all FILE(s) to standard output.	<ul style="list-style-type: none"> -r -n
----------	---	--

```
Activities  Terminal  Jul 9 9:17 AM  43 %
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop/OS
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx: ~/Desktop/OS$ sort OS.txt
learn operating system.
linux is easy to learn.unix is a multuser os.Learn unix .unix is a powerful.
linux is great os. unix is opensource. unix is free os.
linux linux which one you choose.
nehul_nikude@Nehul-HP-Pavilion-Laptop-15-cc1xx:~/Desktop/OS$ sort -r OS.txt
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```