LINUX COMMANDS

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COMMAND	USE	EXAMPLE / SCREENSHOT
pwd	to check the current directory.	<pre>siddharth@debian:~\$ pwd /home/siddharth</pre>
cd	to change the directory to some other directory.	<pre>siddharth@debian:~\$ cd Downloads/ siddharth@debian:~/Downloads\$ cd-</pre>
cd	to get back to the home directory.	
Is	to list out all the files that the current directory contains.	<pre>siddharth@debian:-\$ ls Desktop example2.c Example3.c helloWorld.o Documents example2.o example3.o LinkedList.c numberPlate.c ProcEx2.c ProcEx5.c Videos Downloads example3.c helloWorld.c linkedList.o numberPlate.o ProcEx3.c Public</pre>
ls -R	in addition to the use of ls command, it shows the files and folders of the sub-directory as well.	<pre>siddharth@debian:-\$ ls -R .: Desktop example2.c Example3.c helloWorld.o Music</pre>
Is -a	it is used to show all the files in the directory. it also shows the hidden files in that directory.	<pre>siddharth@debian:-\$ ls -acache</pre>
mkdir	it is used to make a new directory. it shows an error if the directory already exists.	<pre>siddharth@debian:~\$ mkdir Songs</pre>
rmdir	it is used to remove the directory. it only deletes the directory if it is empty.	<pre>siddharth@debian:~\$ rmdir Music</pre>
touch	it is used to create a new blank file in the current directory.	<pre>siddharth@debian:~\$ touch commands.txt</pre>
find	it is used to locate a file in the current directory.	<pre>siddharth@debian:~\$ find -name commands.txt ./commands.txt</pre>
sudo	it enables us to perform tasks that require administrative rights.	
df	to get a report on system's disk usage in % and KBs	siddharth@debian:~\$ df Filesystem 1K-blocks Used Available Use% Mounted on udev 485688 0 485688 0% /dev tmpfs 101108 4936 96172 5% /run /dev/sdal 9222484 4539428 4194864 52% / tmpfs 505532 51168 454364 11% /dev/shm tmpfs 5120 4 5116 1% /run/lock tmpfs 505532 0 505532 0% /sys/fs/cgroup
df -m	to get a report on system's disk usage in % and MBs	siddharth@debian:~\$ df -m Filesystem 1M-blocks Used Available Use% Mounted on udev 475 0 475 0% /dev tmpfs 99 5 94 5% /run /dev/sdal 4097 52% / /dev/shm 50 444 11% /dev/shm 11% /dev/shm 11% /run/lock 11% /run/lock 10% /sys/fs/cgroup 10% /sys/fs/cgroup 10% /run/user/1000 /dev/sr0 3789 3789 0 100% /media/cdrom0
head -n 5	to show the first 5 line of a file. if there is another integer in place of 5, it will show that many lines.	<pre>siddharth@debian:~\$ head -n 5 example2.c #include<unistd.h> #include<sys syscall.h=""> #include<errno.h> #include<stdio.h></stdio.h></errno.h></sys></unistd.h></pre>
head	to show first 10 lines of the file.	
tail	to show last 10 lines of the file.	
tail -n 5	to show the last 5 line of a file. if there is another integer in place of 5, it will show that many lines.	<pre>siddharth@debian:~\$ tail -n 5 example2.c rc = syscall(SYS_chmod, "/etc/passwd", 0444); if(rc == -1) fprintf(stderr, "chmod failed, errno = %d\n", errno); printf("This is Example2"); }</pre>
chmod	to change read, write pr execute permissions of files or directories.	

ping	to check connectivity status to a server.	siddharth@debian:~\$ ping google.com PING google.com (142.250.67.142) 56(84) bytes of data. 64 bytes from bom12s06-in-f14.le100.net (142.250.67.142): icmp_seq=1 ttl=63 time=72.6 64 bytes from bom12s06-in-f14.le100.net (142.250.67.142): icmp_seq=2 ttl=63 time=69.0 64 bytes from bom12s06-in-f14.le100.net (142.250.67.142): icmp_seq=3 ttl=63 time=69.1 64 bytes from bom12s06-in-f14.le100.net (142.250.67.142): icmp_seq=4 ttl=63 time=64.10 64 bytes from bom12s06-in-f14.le100.net (142.250.67.142): icmp_seq=5 ttl=63 time=66.1 64 bytes from bom12s06-in-f14.le100.net (142.250.67.142): icmp_seq=6 ttl=63 time=66.1 64 bytes from bom12s06-in-f14.le100.net (142.250.67.142): icmp_seq=7 ttl=63 time=66.1 64 bytes from bom12s06-in-f14.le100.net (142.250.67.142): icmp_seq=8 ttl=63 time=67.4 64 bytes from bom12s06-in-f14.le100.net (142.250.67.142): icmp_seq=9 ttl=63 time=63.5 64 bytes from bom12s06-in-f14.le100.net (142.250.67.142): icmp_seq=10 ttl=63 time=66.3 64 bytes from bom12s06-in-f14.le100.net (142.250.67.142): icmp_seq=11 ttl=63 time=79.4 64 bytes from bom12s06-in-f14.le100.net (142.250.67.142): icmp_seq=12 ttl=63 time=79.4 64 bytes from bom12s06-in-f14.le100.net (142.250.67.142): icmp_seq=14 ttl=63 time=79.4 64 bytes from bom12s06-in-f14.le100.net (142.250.67.142): icmp_seq=11 ttl=63 time=68.2
history	to show the list of commands used by a user in the terminal.	<pre>siddharth@debian:~\$ history 1 gcc -o helloWorld.o helloWorld.c 2 sudo apt-get install build-essential 3 sudo apt-get install gcc 4 sudo nano /etc/apt/sources.list 5 sudo apt-update 6 sudo apt update 7 sudo apt install ltrace</pre>
uname	shows the information about the UNIX machine.	siddharth@debian:~\$ uname Linux
top	to show the list of running processes and how much CPU is used in those processes.	siddharth@debian:-\$ top
useradd	to add a new user in the OS.	
passwd	to change the password of that particular user in the OS.	
echo	to insert a line of text in a file.	<pre>siddharth@debian:~\$ echo command1: "ltrace">> commands.txt</pre>
hostname	to show the hostname.	<pre>siddharth@debian:~\$ hostname debian</pre>
hostname -i	to show the IP Address of the hostname.	siddharth@debian:~\$ hostname -i 127.0.1.1
apt-get	used to manage packages in LINUX.	<pre>siddharth@debian:~\$ apt-get apt 1.8.2.1 (amd64) Usage: apt-get [options] command</pre>
arch	used to print computer architecture.	<pre>siddharth@debian:~\$ arch x86_64</pre>
cat	to read data from a file .	
date	used to print system date and time.	siddharth@debian:~\$ date Sun Nov 8 15:52:22 IST 2020
exit	used to exit the shell where it is currently running.	
free	to display the amount of free space along with the memory in use.	siddharth@debian:-\$ free total used free shared buff/cache available Mem: 1011068 624960 122656 38924 263452 208340 Swap: 1046524 977552 68972
man	shows the user manual for the command that follows this command.	Example: man Is
pinky	gives the information about all the users who have logged in and the time of logging in.	<pre>siddharth@debian:~\$ pinky Login Name</pre>