Practical no 3:- linux command.

Command:-grep,locate,find,date,cat.

```
nit-virtual-machine:~/Desktop/Amit$ grep "hello" 1.txt
       this is linux file.
amit@amit-virtual-machine:~/Desktop/Amit$ locate 1.txt
/home/amit/Desktop/Amit/1.txt
/usr/lib/firmware/brcm/brcmfmac4330-sdio.Prowise-PT301.txt
/usr/lib/firmware/brcm/brcmfmac43430-sdio.Hampoo-D2D3_Vi8A1.txt
/usr/lib/firmware/brcm/brcmfmac43430-sdio.beagle,beaglev-starlight-jh7100-a1.txt
/usr/lib/firmware/brcm/brcmfmac43430-sdio.friendlyarm,nanopi-r1.txt
/usr/lib/firmware/brcm/brcmfmac43430-sdio.starfive,visionfive-v1.txt
/usr/share/doc/kbd/charsets/iso8859-1.txt.gz
/usr/share/doc/kbd/charsets/iso8859-11.txt.gz
/usr/share/doc/libsane-common/teco/teco1.txt.gz
amit@amit-virtual-machine:~/Desktop/Amit$ find 2.txt
2.txt
amit@amit-virtual-machine:~/Desktop/Amit$ date
Thursday 21 September 2023 11:33:57 AM IST
amit@amit-virtual-machine:~/Desktop/Amit$ cat 1.txt
hello this is linux file.
amit@amit-virtual-machine:~/Desktop/AmitS
```

Command 2:-uptime, w, finger, df, du, where is , man (simply type man man command).

```
11:48:07 up 34 min, 1 user, load average: 0.04, 0.09, 0.25
 amit@amit-virtual-machine:~/Desktop/Amit$ w
 11:48:43 up 34 min, 1 user, load average: 0.08, 0.10, 0.25
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
amit tty2 tty2 11:14 23:42 0.08s 0.06s /usr/libexec/gnome
amit@amit-virtual-machine:-/Desktop/Amit$ finger
                 FROM
USER
                                 Idle Login Time Office
                                                                          Office Phone
amit
                                     23 Sep 21 11:14 (tty2)
 mit@amit-virtual-machine:~/Desktop/Amit$ df
Filesystem 1K-blocks Used Available Use% Mounted on
                                          AVAILABLE USE% Mounted on 394612 1% /run 6895824 64% / 1982280 0% /dev/shm 5116 1% /run/lock 518056 2% /boot/efi 396300 1% /run/user/1000 0 100% /media/amit/Ubuntu 22.04.3 LTS am to Amit's du
                      396456
                                    1844
/dev/sda3
                    19946096 12011732
                   1982280
tmpfs
                      5120
/dev/sda2
                      524272
                     396456
/dev/sr0
                    4919592 4919592
amit@amit-virtual-machine:~/Desktop/Amit$ du
amit@amit-virtual-machine:~/Desktop/Amit$ whereis Amit
```

```
man - an interface to the system reference manuals

SYNOPSIS

man [man options] [[section] page ...] ...
man -k [man options] [section] term ...
man -k [man options] [section] term ...
man -k [man options] [section] term ...
man -l [man options] page ...
man -l [man options] file ...
man -l [man options] file ...
man -w [-w [man options] file ...
man w [-w [man options] page ...

DESCRIPTION

man is the system's manual pager. Each page argument given to man is norma arguments is then found and displayed. A section, if provided, will direct the available sections following a pre-defined order (see DEFAULTS), and to the available sections following a pre-defined order (see DEFAULTS), and to the available sections of the manual followed by the type is the system calls (functions provided by the kernel)

1 Executable programs or shell commands
2 System calls (functions within program libraries)
4 Special files (usually found in fdex)
5 Games
7 Miscellaneous (including macro packages and conventions), e.g. man(7),
8 System administration commands (usually only for root)
9 Kernel routines [Non standard]
A manual page consists of several sections.

Conventional section names include NAME, SYNOPSIS, CONFIGURATION, DESCRIP NOTES, BUGS, EXAMPLE, AUTHORS, and SEE ALSO.

The following conventions apply to the SYNOPSIS section and can be used as bold text type exactly as shown.
italic text replace with appropriate argument.
[-ab-] any or all arguments within [] are optional.
-al-b argument ... argument is repeatable.
[expression] ... entire expression within [] is repeatable.
[expression] ... entire expression within [] is repeatable.
Exact rendering may vary depending on the output device. For instance, man underlined or coloured text instead.

Manual page man(1) line 1 (press h for help or q to quit)
```

Command 3:- Tar,gzip,gunzip(to again extract zip).

```
amit@amit-virtual-machine:~/Desktop/Amit$ tar cvf test.tar Amit/amit2
tar: Amit/amit2: Cannot stat: No such file or directory
tar: Exiting with failure status due to previous errors
amit@amit-virtual-machine:~/Desktop/Amit$ ls
1.txt 2.txt amit2 amit2.tar file.tar test.tar
amit@amit-virtual-machine:~/Desktop/Amit$
```

```
amit@amit-virtual-machine:~/Desktop/Amit$ gzip 1.txt
amit@amit-virtual-machine:~/Desktop/Amit$ ls
1.txt.gz 2.txt amit2 amit2.tar file.tar test.tar
amit@amit-virtual-machine:~/Desktop/Amit$ gunzip 1.txt.gz
amit@amit-virtual-machine:~/Desktop/Amit$ ls
1.txt 2.txt amit2 amit2.tar file.tar test.tar
amit@amit-virtual-machine:~/Desktop/Amit$
```

Command4:-pwd,cd,ls,mkdir,rmdir,file,touch.

```
amit@amit-virtual-machine:~/Desktop$ pwd
/home/amit/Desktop
amit@amit-virtual-machine:-/Desktop$ cd Amit/amit2/
amit@amit-virtual-machine:-/Desktop/Amit/amit2$ ls
hello.py loops.sh myfile.txt random.sh
amit@amit-virtual-machine:-/Desktop/Amit/amit2$ mkdir amit3
amit@amit-virtual-machine:-/Desktop/Amit/amit2$ rmdir amit3
amit@amit-virtual-machine:-/Desktop/Amit/amit2$ rmdir amit3
amit@amit-virtual-machine:-/Desktop/Amit/amit2$ rmdir amit3
amit@amit-virtual-machine:-/Desktop/Amit/amit2$ file os
os: cannot open 'os' (No such file or directory)
amit@amit-virtual-machine:-/Desktop/Amit/amit2$ file hello.py
hello.py: ASCII text
amit@amit-virtual-machine:-/Desktop/Amit/amit2$ touch newfile.txt
amit@amit-virtual-machine:-/Desktop/Amit/amit2$ ls
hello.py loops.sh myfile.txt newfile.txt random.sh
amit@amit-virtual-machine:-/Desktop/Amit/amit2$ ls
hello.py loops.sh myfile.txt newfile.txt random.sh
amit@amit-virtual-machine:-/Desktop/Amit/amit2$ ls
hello.py loops.sh myfile.txt newfile.txt random.sh
```

Command5:-rm ,cp,mv,head,tail.

```
amit@amit-virtual-machine: ~/Desktop
                              amit@amit-virtual-machine: ~/Desktop Q = _
                                                                                                mit@amit-virtual-machine:~/Desktop$ ls
                                                                                               1.c 1.txt Amit myfile.txt
amit@amit-virtual-machine:~/Desktop$ mv 1.c 2.c
amit@amit-virtual-machine:~/Desktop$ l
1.txt 2.c Amit/ myfile.txt
amit@amit-virtual-machine:~/Desktop$ head 1.txt
 mit@amit-virtual-machine:~/Desktop/Amit/amit2$ ls
hello.py loops.sh myfile.txt newfile.txt random.sh
amit@amit-virtual-machine:~/Desktop/Amit/amit2$ rm newfile.txt
 amit@amit-virtual-machine:~/Desktop/Amit/amit2$ ls
                                                                                               hello,
hello.py loops.sh myfile.txt random.sh
                                                                                               hii
 amit@amit-virtual-machine:-/Desktop/Amit/amit2$ cp myfile.txt ~/Desktop/Amit
                                                                                               how are you
 amit@amit-virtual-machine:~/Desktop/Amit/amit2$ ls
                                                                                                ye.
                                                                                                amit@amit-virtual-machine:~/Desktop$ tail 1.txt
hello.py loops.sh myfile.txt random.sh
                                                                                               hello,
amit@amit-virtual-machine:~/Desktop/Amit/amit2$ cd ../
 amit@amit-virtual-machine:~/Desktop/Amit$ ls
                                                                                               how are you
1.txt amit2 file.tar hello.cc myfile.txt test2
2.txt amit2.tar hello.c hello.py test
                                                                                                amit@amit-virtual-machine:~/Desktop$ ps
                                                                                                 PID TTY TIME CMD

26485 pts/0 00:00:00 bash

26588 pts/0 00:00:00 ps
mit@amit-virtual-machine:-/Desktop$ top -c
amit@amit-virtual-machine:~/Desktop/Amit$ mv myfile.txt ~/Desktop
amit@amit-virtual-machine:~/Desktop/Amit$ cd ../
 amit@amit-virtual-machine:~/Desktop$ ls
 mit myfile.txt
```

Command 6:-top,pkill,bg.



