DTL Assignment: 40 LINUX Commands

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Div1 Comp, S5 batch

sudo:

pwd:

cd:

ls:

```
anuksha@DESKTOP-M1Q8BM7:~$ ls
dtl   dtl2
```

cat:

```
anuksha@DESKTOP-M1Q8BM7:~/dtl$ cat >file1.txt
This is a sample text file.anuksha@DESKTOP-M1Q8BM7:~/dtl$ cat file1.txt
This is a sample text file.anuksha@DESKTOP-M1Q8BM7:~/dtl$
```

cp:

```
anuksha@DESKTOP-M1Q8BM7:~/dtl$ cp file1.txt /home/anuksha/hello
anuksha@DESKTOP-M1Q8BM7:~/dtl$ cd /home/anuksha
anuksha@DESKTOP-M1Q8BM7:~$ cd hello
anuksha@DESKTOP-M1Q8BM7:~/hello$ ls
file1.txt
```

mv:

```
anuksha@DESKTOP-M1Q8BM7:~/hello$ mv file1.txt file1new.txt
anuksha@DESKTOP-M1Q8BM7:~/hello$ file1new.txt
file1new.txt: command not found
anuksha@DESKTOP-M1Q8BM7:~/hello$ cat file1new.txt
This is a sample text file.anuksha@DESKTOP-M1Q8BM7:~/hello$
```

mkdir:

```
.   ..
anuksha@DESKTOP-M1Q8BM7:~/dtl$ mkdir dtl2
anuksha@DESKTOP-M1Q8BM7:~/dtl$ ls
dtl2
```

rmdir:

```
anuksha@DESKTOP-M1Q8BM7:~/dtl$ rmdir dtl2
anuksha@DESKTOP-M1Q8BM7:~/dtl$ ls
anuksha@DESKTOP-M1Q8BM7:~/dtl$ _
```

touch:

```
anuksha@DESKTOP-M1Q8BM7:~/dtl$ touch file1.txt
anuksha@DESKTOP-M1Q8BM7:~/dtl$ ls
file1.txt
```

plocate:

```
anuksha@DESKTOP-M1Q8BM7:~$ locate -i sample
/mnt/c/HashiCorp/Vagrant/embedded/gems/2.2.16/gems/ffi-1.15.0-x64-mingw32/samples
/mnt/c/HashiCorp/Vagrant/embedded/gems/2.2.16/gems/ffi-1.15.0-x64-mingw32/samples/getlogin.rb
/mnt/c/HashiCorp/Vagrant/embedded/gems/2.2.16/gems/ffi-1.15.0-x64-mingw32/samples/getpid.rb
/mnt/c/HashiCorp/Vagrant/embedded/gems/2.2.16/gems/ffi-1.15.0-x64-mingw32/samples/gettimeofday.rb
/mnt/c/HashiCorp/Vagrant/embedded/gems/2.2.16/gems/ffi-1.15.0-x64-mingw32/samples/hello.rb
/mnt/c/HashiCorp/Vagrant/embedded/gems/2.2.16/gems/ffi-1.15.0-x64-mingw32/samples/inotify.rb
/mnt/c/HashiCorp/Vagrant/embedded/gems/2.2.16/gems/ffi-1.15.0-x64-mingw32/samples/pty.rb
```

find:

```
anuksha@DESKTOP-M1Q8BM7:~$ find / -name file1new.txt
find: '/etc/polkit-1/localauthority': Permission denied
find: '/etc/ssl/private': Permission denied
/home/anuksha/hello/file1new.txt
```

grep:

```
anuksha@DESKTOP-M1Q8BM7:~/dtl$ grep sample file1.txt
This is a sample text file.
anuksha@DESKTOP-M1Q8BM7:~/dtl$
```

df:

```
anuksha@DESKTOP-M1Q8BM7:~/dtl$ df -h
Filesystem      Size  Used Avail Use% Mounted on
rootfs          476G  245G  232G  52% /
none            476G  245G  232G  52% /dev
none            476G  245G  232G  52% /run
none            476G  245G  232G  52% /run/lock
none            476G  245G  232G  52% /run/shm
none            476G  245G  232G  52% /run/user
tmpfs           476G  245G  232G  52% /sys/fs/cgroup
C:\             476G  245G  232G  52% /mnt/c
```

du:

```
anuksha@DESKTOP-M1Q8BM7:~/dtl$ du -m /home/anuksha
0       /home/anuksha/dtl
0       /home/anuksha/hello
1       /home/anuksha
```

head:

```
anuksha@DESKTOP-M1Q8BM7:~/dtl$ head file1.txt
This is a sample text file.anuksha@DESKTOP-M1Q8BM7:~/dtl$
```

tail:

```
This is a sample text file.anuksha@DESKTOP-M1Q8BM7:~/dtl$ tail file1.txt
This is a sample text file.anuksha@DESKTOP-M1Q8BM7:~/dtl$
```

diff:

```
anuksha@DESKTOP-M1Q8BM7:~/dtl$ diff file1.txt file2.txt
1c1
< This is a sample text file.
\ No newline at end of file
---
> This is another text file for comparison purposes.
```

tar:

```
anuksha@DESKTOP-M1Q8BM7:~/dtl$ tar -cvf newfile.tar /home/anuksha
tar: Removing leading `/' from member names
/home/anuksha/
/home/anuksha/.bashrc
/home/anuksha/.bash_logout
/home/anuksha/.motd_shown
/home/anuksha/.profile
/home/anuksha/.sudo_as_admin_successful
/home/anuksha/dtl/
/home/anuksha/dtl/file1.txt
/home/anuksha/dtl/file2.txt
tar: /home/anuksha/dtl/newfile.tar: file is the archive; not dumped
/home/anuksha/dtl2
/home/anuksha/hello/
/home/anuksha/hello/file1new.txt
```

chmod:

```
anuksha@DESKTOP-M1Q8BM7:~/dtl$ chmod +x file2.txt
anuksha@DESKTOP-M1Q8BM7:~/dtl$
```

chown:

```
anuksha@DESKTOP-M1Q8BM7:~/dtl$ chown anuksha file2.txt
```

kill:

```
anuksha@DESKTOP-M1Q8BM7:~/dtl$ ps ux
USER        PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
anuksha      49  0.0  0.0  14216  3816 tty1     S    15:46   0:00 -bash
anuksha    2017  0.0  0.0  15520  1928 tty1     R    17:25   0:00 ps ux
anuksha@DESKTOP-M1Q8BM7:~/dtl$ kill SIGKILL 49
-bash: kill: SIGKILL: arguments must be process or job IDs
```

ping:

```
anuksha@DESKTOP-M1Q8BM7:~/dtl$ ping google.com
PING google.com (142.250.192.46) 56(84) bytes of data.
64 bytes from bom12s15-in-f14.1e100.net (142.250.192.46): icmp_seq=1 ttl=56 time=74.1 ms
64 bytes from bom12s15-in-f14.1e100.net (142.250.192.46): icmp_seq=2 ttl=56 time=59.3 ms
64 bytes from bom12s15-in-f14.1e100.net (142.250.192.46): icmp_seq=3 ttl=56 time=76.2 ms
64 bytes from bom12s15-in-f14.1e100.net (142.250.192.46): icmp_seq=4 ttl=56 time=96.9 ms
64 bytes from bom12s15-in-f14.1e100.net (142.250.192.46): icmp_seq=5 ttl=56 time=184 ms
```

wget:

```
anuksha@DESKTOP-M1Q8BM7:~$ wget https://www.loggly.com/wp-content/uploads/2015/05/Linux-Cheat-Sheet-Sponsored-By-Loggly.pdf
--2023-02-06 17:30:55--  https://www.loggly.com/wp-content/uploads/2015/05/Linux-Cheat-Sheet-Sponsored-By-Loggly.pdf
Resolving www.loggly.com (www.loggly.com)... 184.28.235.67, 184.28.235.66
Connecting to www.loggly.com (www.loggly.com)|184.28.235.67|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 987562 (964K) [application/pdf]
Saving to: 'Linux-Cheat-Sheet-Sponsored-By-Loggly.pdf'
```

uname:

```
anuksha@DESKTOP-M1Q8BM7:~$ uname -a
Linux DESKTOP-M1Q8BM7 4.4.0-19041-Microsoft #2311-Microsoft Tue Nov 08 17:09:00 PST 2022 x86_64 x86_64 x86_64 GNU/Linux
anuksha@DESKTOP-M1Q8BM7:~$
```

top:

```
anuksha@DESKTOP-M1Q8BM7: ~
top - 17:35:10 up  1:48,  0 users,  load average: 0.52, 0.58, 0.59
Tasks:   4 total,   1 running,   3 sleeping,   0 stopped,   0 zombie
%Cpu(s):  1.2 us,  1.4 sy,  0.0 ni, 97.3 id,  0.0 wa,  0.1 hi,  0.0 si,  0.0 st
MiB Mem :  15773.3 total,   7413.0 free,   8136.3 used,    224.0 buff/cache
MiB Swap:  49152.0 total,  49001.0 free,    151.0 used.   7506.4 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
    1 root      20   0    8964    420    344 S   0.0   0.0   0:00.14 init
 2021 root      20   0    9312    240    188 S   0.0   0.0   0:00.01 init
 2022 anuksha   20   0   14248   3784   3676 S   0.0   0.0   0:00.09 bash
 2036 anuksha   20   0   15824   2256   1580 R   0.0   0.0   0:00.04 top
```

history:

```
anuksha@DESKTOP-M1Q8BM7: ~
anuksha@DESKTOP-M1Q8BM7:~$ history
    1  sudo apt update
    2  sudo apt upgrade
    3  sudo apt update
    4  sudo -V
    5  pwd
    6  cd
    7  cd /home/anuksha/file
    8  mkdir dtl
    9  cd /home/anuksha/dtl
   10  ls
   11  ls-a
   12  ls -a
   13  mkdir dtl2
   14  ls
   15  cd /home/anuksha
   16  ls
   17  mkdir dtl2
   18  ls
   19  rmdir dtl2
   20  cd dtl
   21  rmdir dtl2
   22  ls
   23  touch file1.txt
   24  ls
   25  cat >file1.txt
   26  cat file1.text
   27  cat >file1.txt
   28  cat file1.txt
   29  cp file1.txt /home/anuksha/dtl2
   30  cd /home/anuksha/dtl2
   31  cd /home/anuksha
   32  mkdir dtl2
   33  mkdir hello
   34  ls
   35  cd dtl
   36  \cp file1.txt /home/anuksha/hello
   37  cd hello
   38  cp file1.txt /home/anuksha/hello
   39  cd /home/anuksha
   40  cd hello
```

man:

echo:

zip,unzip:

hostname:

useradd, userdel:

apt-get:

nano, vi,jed:

```
anuksha@DESKTOP-M1Q8BM7:~$ vi hello.c
```

```
anuksha@DESKTOP-M1Q8BM7:~$ nano hello.py
```

alias, unalias:

```
anuksha@DESKTOP-M1Q8BM7:~$ alias k='kill'
anuksha@DESKTOP-M1Q8BM7:~$ unalias k
anuksha@DESKTOP-M1Q8BM7:~$
```

su:

```
anuksha@DESKTOP-M1Q8BM7:~$ su -p
Password:
su: Authentication failure
anuksha@DESKTOP-M1Q8BM7:~$ su -s
su: option requires an argument -- 's'
Try 'su --help' for more information.
anuksha@DESKTOP-M1Q8BM7:~$ su -l
Password:
su: Authentication failure
anuksha@DESKTOP-M1Q8BM7:~$
```

htop:

```
anuksha@DESKTOP-M1Q8BM7:~$ htop -h
htop 3.0.5
(C) 2004-2019 Hisham Muhammad. (C) 2020 htop dev team.
Released under the GNU GPLv2.

-C --no-color                   Use a monochrome color scheme
-d --delay=DELAY                Set the delay between updates, in tenths of seconds
-F --filter=FILTER              Show only the commands matching the given filter
-h --help                       Print this help screen
-H --highlight-changes[=DELAY]  Highlight new and old processes
-M --no-mouse                   Disable the mouse
-p --pid=PID[,PID,PID...]       Show only the given PIDs
-s --sort-key=COLUMN            Sort by COLUMN in list view (try --sort-key=help for a list)
-t --tree                       Show the tree view (can be combined with -s)
-u --user[=USERNAME]            Show only processes for a given user (or $USER)
-U --no-unicode                 Do not use unicode but plain ASCII
-V --version                    Print version info

Long options may be passed with a single dash.

Press F1 inside htop for online help.
See 'man htop' for more information.
```

ps:

```
anuksha@DESKTOP-M1Q8BM7:~$ ps -u
USER       PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
anuksha   2169  0.0  0.0  14248  3784 tty1     S    18:23   0:00 -bash
anuksha   2186  0.0  0.0  15520  1928 tty1     R    18:28   0:00 ps -u
```