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Ans 1

Ls

ls

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls  
DG.odt
```

ls -l

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls -l  
total 12  
-rw-rw-r-- 1 dannyglade dannyglade 8511 Aug  9 10:15 DG.odt
```

Ls -a

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls -a  
. .. DG.odt
```

Ans 2

Df

df -i

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ df -i  
Filesystem      Inodes   IUsed   IFree  IUse% Mounted on  
udev            246982     470  246512      1% /dev  
tmpfs           254371     828  253543      1% /run  
/dev/sda5        622592  200054  422538     33% /  
tmpfs           254371      1  254370      1% /dev/shm  
tmpfs           254371      5  254366      1% /run/lock  
tmpfs           254371     18  254353      1% /sys/fs/cgroup  
/dev/loop4        470      470      0 100% /snap/snapd/11036  
/dev/loop0        10817    10817      0 100% /snap/core18/1988  
/dev/loop1        18508    18508      0 100% /snap/gnome-3-34-1804/66  
/dev/loop2        63978    63978      0 100% /snap/gtk-common-themes/1514  
/dev/loop3        15847    15847      0 100% /snap/snap-store/518  
/dev/sda1          0       0       0     - /boot/efi  
tmpfs           254371     88  254283      1% /run/user/1000  
/dev/loop5        10803    10803      0 100% /snap/core18/2128  
/dev/loop6        474      474      0 100% /snap/snapd/13170  
/dev/loop7         29       29      0 100% /snap/bare/5  
/dev/loop8        15841    15841      0 100% /snap/snap-store/547  
/dev/loop9        65095    65095      0 100% /snap/gtk-common-themes/1519  
/dev/loop10       18500   18500      0 100% /snap/gnome-3-34-1804/72
```

Ans 3

Stat

stat DG.odt

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ stat DG.odt
  File: DG.odt
  Size: 8511          Blocks: 24          IO Block: 4096   regular file
Device: 805h/2053d      Inode: 24364      Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/dannyglade)  Gid: ( 1000/dannyglade)
Access: 2021-08-09 10:15:49.826472800 +0530
Modify: 2021-08-09 10:15:49.818472933 +0530
Change: 2021-08-09 10:15:49.822472867 +0530
 Birth: -
```

Ans 4

CAT

```
cat > ab*.txt
```

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ cat > ab*.txt
ls
This is just text inside this file^C
```

```
Cat ab*.txt
```

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ cat ab*.txt
ls
```

Ans 5

Rm

```
rm ab*.txt
```

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ rm ab*.txt
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls
DG.odt
dannyglade@dannyglade-VirtualBox:~/Darshan$ █
```

Ans 6

Chmod

```
cat > demo.txt
```

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ cat > demo.txt
This is just demo text inside a demo txt doecument
trying to write another line hope it works
^C
```

```
ls -l
```

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls -l
total 16
-rw-rw-r-- 1 dannyglade dannyglade 94 Sep 29 17:52 demo.txt
-rw-rw-r-- 1 dannyglade dannyglade 8511 Aug 9 10:15 DG.odt
```

Chmod ugo+w demo.txt

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ chmod ugo+w demo.txt
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls -l
total 16
-rw-rw-rw- 1 dannyglade dannyglade 94 Sep 29 17:52 demo.txt
-rw-rw-r-- 1 dannyglade dannyglade 8511 Aug 9 10:15 DG.odt
```

Chmod o-wr demo.txt

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ chmod o-wr demo.txt
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls -l
total 16
-rw-rw---- 1 dannyglade dannyglade 94 Sep 29 17:52 demo.txt
-rw-rw-r-- 1 dannyglade dannyglade 8511 Aug 9 10:15 DG.odt
```

Chmod 666 demo.txt

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ chmod 666 demo.txt
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls -l
total 16
-rw-rw-rw- 1 dannyglade dannyglade 94 Sep 29 17:52 demo.txt
-rw-rw-r-- 1 dannyglade dannyglade 8511 Aug 9 10:15 DG.odt
```

Ans 7

Mkdir

Mkdir unixstuff

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls
demo.txt DG.odt
dannyglade@dannyglade-VirtualBox:~/Darshan$ mkdir unixstuff
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls
demo.txt DG.odt unixstuff
dannyglade@dannyglade-VirtualBox:~/Darshan$
```

Ans 8

Pwd

Pwd

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ pwd
/home/dannyglade/Darshan
dannyglade@dannyglade-VirtualBox:~/Darshan$
```

Cd

Cd unixstuff

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ cd unixstuff  
dannyglade@dannyglade-VirtualBox:~/Darshan/unixstuff$ pwd  
/home/dannyglade/Darshan/unixstuff  
dannyglade@dannyglade-VirtualBox:~/Darshan/unixstuff$
```

Cd .

```
dannyglade@dannyglade-VirtualBox:~/Darshan/unixstuff$ cd .  
dannyglade@dannyglade-VirtualBox:~/Darshan/unixstuff$ pwd  
/home/dannyglade/Darshan/unixstuff  
dannyglade@dannyglade-VirtualBox:~/Darshan/unixstuff$
```

Cd ..

```
dannyglade@dannyglade-VirtualBox:~/Darshan/unixstuff$ cd ..  
dannyglade@dannyglade-VirtualBox:~/Darshan$ pwd  
/home/dannyglade/Darshan  
dannyglade@dannyglade-VirtualBox:~/Darshan$
```

Ans 9

Cp

Cp demo.txt demo2.txt

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls  
demo.txt DG.odt unixstuff  
dannyglade@dannyglade-VirtualBox:~/Darshan$ cp demo.txt demo2.txt  
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls  
demo2.txt demo.txt DG.odt unixstuff  
dannyglade@dannyglade-VirtualBox:~/Darshan$
```

Cp ~/Darshan/demo.txt .

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ cd unixstuff  
dannyglade@dannyglade-VirtualBox:~/Darshan/unixstuff$ ls  
dannyglade@dannyglade-VirtualBox:~/Darshan/unixstuff$ cp ~/Darshan/demo.txt .  
dannyglade@dannyglade-VirtualBox:~/Darshan/unixstuff$ ls  
demo.txt  
dannyglade@dannyglade-VirtualBox:~/Darshan/unixstuff$ cd ..  
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls  
demo2.txt demo.txt DG.odt unixstuff  
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls unixstuff  
demo.txt  
dannyglade@dannyglade-VirtualBox:~/Darshan$
```

Mv

Mv demo2.txt ~/Darshan/unixstuff/.

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls  
demo2.txt demo.txt DG.odt unixstuff  
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls unixstuff  
demo.txt  
dannyglade@dannyglade-VirtualBox:~/Darshan$ mv demo2.txt ~/Darshan/unixstuff/.  
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls  
demo.txt DG.odt unixstuff  
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls unixstuff  
demo2.txt demo.txt  
dannyglade@dannyglade-VirtualBox:~/Darshan$
```

Ans 10

Grep

```
Grep demo demo.txt  
dannyglade@dannyglade-VirtualBox:~/Darshan$ grep demo demo.txt  
This is just demo text inside a demo txt doecument  
dannyglade@dannyglade-VirtualBox:~/Darshan$
```

Wc

Wc demo.txt

Lines/words/charachters

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ wc demo.txt  
2 18 94 demo.txt  
dannyglade@dannyglade-VirtualBox:~/Darshan$
```

Ans 11

Redirection

```
Cat > list1  
Apple  
Banana  
Sandwitch  
Pizza  
Burger  
[Ctrl + D](to stop)
```

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ cat > list1
Apple
Banana
Sandwitch
Pizza
Burger
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls
demo.txt DG.odt list1 unixstuff
dannyglade@dannyglade-VirtualBox:~/Darshan$ cat list
cat: list: No such file or directory
dannyglade@dannyglade-VirtualBox:~/Darshan$ cat list1
Apple
Banana
Sandwitch
Pizza
Burger
dannyglade@dannyglade-VirtualBox:~/Darshan$
```

Append

```
Cat list1 list2 > finalist
dannyglade@dannyglade-VirtualBox:~/Darshan$ cat > list2
Strawberry
Grape
Kiwi
dannyglade@dannyglade-VirtualBox:~/Darshan$ cat list1 list2 > finalist
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls
demo.txt DG.odt finalist list1 list2 unixstuff
dannyglade@dannyglade-VirtualBox:~/Darshan$ cat finalist
Apple
Banana
Sandwitch
Pizza
Burger
Strawberry
Grape
Kiwi
dannyglade@dannyglade-VirtualBox:~/Darshan$
```

Ans 12

What is

```
What is wc
dannyglade@dannyglade-VirtualBox:~/Darshan$ whatis wc
wc (1)           - print newline, word, and byte counts for each file
dannyglade@dannyglade-VirtualBox:~/Darshan$ apropos wc
** (--)          print newline, word, and byte counts for each
dannyglade@dannyglade-VirtualBox:~/Darshan$ whatis pwd
pwd (1)          - print name of current/working directory
dannyglade@dannyglade-VirtualBox:~/Darshan$
```

Apropos

Apropos wc

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ apropos wc
hwclock (5)           - variables that affect the behaviour of the hwclock bo...
hwclock (8)           - time clocks utility
iwconfig (8)          - configure a wireless network interface
pwck (8)              - verify integrity of password files
pwconv (8)            - convert to and from shadow passwords and groups
showconsolefont (8)   - Show the current EGA/VGA console screen font
wc (1)                - print newline, word, and byte counts for each file
```

Apropos copy

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ apropos copy
cp (1)                - copy files and directories
cpgr (8)              - copy with locking the given file to the password or g...
cpio (1)              - copy files to and from archives
cppw (8)              - copy with locking the given file to the password or g...
dd (1)                - convert and copy a file
debconf-copydb (1)    - copy a debconf database
gvfs-copy (1)          - (unknown subject)
install (1)            - copy files and set attributes
mcopy (1)              - copy MSDOS files to/from Unix
ntfscp (8)             - copy file to an NTFS volume.
rcp (1)                - OpenSSH secure file copy
rsync (1)              - a fast, versatile, remote (and local) file-copying tool
scp (1)                - OpenSSH secure file copy
ssh-copy-id (1)        - use locally available keys to authorise logins on a r...
dannyglade@dannyglade-VirtualBox:~/Darshan$
```

Ans 13

^c

[ctrl + c]

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ sleep 100
^C
dannyglade@dannyglade-VirtualBox:~/Darshan$
```

Kill

Sleep 100 & jobs

Kill %1

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ sleep 100 & jobs
[1] 3816
[1]+  Running                  sleep 100 &
dannyglade@dannyglade-VirtualBox:~/Darshan$ jobs
[1]+  Running                  sleep 100 &
dannyglade@dannyglade-VirtualBox:~/Darshan$ kill %1
dannyglade@dannyglade-VirtualBox:~/Darshan$ jobs
[1]+  Terminated                sleep 100
dannyglade@dannyglade-VirtualBox:~/Darshan$
```

Ps

ps

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ sleep 1000 & jobs
[1] 3819
[1]+  Running                  sleep 1000 &
dannyglade@dannyglade-VirtualBox:~/Darshan$ jobs
[1]+  Running                  sleep 1000 &
dannyglade@dannyglade-VirtualBox:~/Darshan$ ps
    PID TTY      TIME CMD
  3579 pts/0    00:00:00 bash
  3819 pts/0    00:00:00 sleep
  3820 pts/0    00:00:00 ps
dannyglade@dannyglade-VirtualBox:~/Darshan$ kill %1
dannyglade@dannyglade-VirtualBox:~/Darshan$ jobs
[1]+  Terminated                sleep 1000
dannyglade@dannyglade-VirtualBox:~/Darshan$ ps
    PID TTY      TIME CMD
  3579 pts/0    00:00:00 bash
  3821 pts/0    00:00:00 ps
dannyglade@dannyglade-VirtualBox:~/Darshan$
```

Gzip

Gzip DG.odt

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls -l
total 36
-rw-rw-r-- 1 dannyglade dannyglade  94 Sep 29 19:26 demo3.txt
-rw-rw-r-- 1 dannyglade dannyglade  94 Sep 29 17:52 demo.txt
-rw-rw-r-- 1 dannyglade dannyglade 8511 Aug  9 10:15 DG.odt
-rw-rw-r-- 1 dannyglade dannyglade   58 Sep 29 18:53 finalist
-rw-rw-r-- 1 dannyglade dannyglade   36 Sep 29 18:46 list1
-rw-rw-r-- 1 dannyglade dannyglade   22 Sep 29 18:51 list2
drwxrwxr-x 2 dannyglade dannyglade 4096 Sep 29 18:37 unixstuff
dannyglade@dannyglade-VirtualBox:~/Darshan$ gzip DG.odt
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls -l
total 32
-rw-rw-r-- 1 dannyglade dannyglade  94 Sep 29 19:26 demo3.txt
-rw-rw-r-- 1 dannyglade dannyglade  94 Sep 29 17:52 demo.txt
-rw-rw-r-- 1 dannyglade dannyglade 6949 Aug  9 10:15 DG.odt.gz
-rw-rw-r-- 1 dannyglade dannyglade   58 Sep 29 18:53 finalist
-rw-rw-r-- 1 dannyglade dannyglade   36 Sep 29 18:46 list1
-rw-rw-r-- 1 dannyglade dannyglade   22 Sep 29 18:51 list2
drwxrwxr-x 2 dannyglade dannyglade 4096 Sep 29 18:37 unixstuff
dannyglade@dannyglade-VirtualBox:~/Darshan$
```

Gunzip

Gunzip DG.odt

```
dannyglade@dannyglade-VirtualBox:~/Darshan$ gunzip DG.odt
dannyglade@dannyglade-VirtualBox:~/Darshan$ ls -l
total 36
-rw-rw-r-- 1 dannyglade dannyglade 94 Sep 29 19:26 demo3.txt
-rw-rw-r-- 1 dannyglade dannyglade 94 Sep 29 17:52 demo.txt
-rw-rw-r-- 1 dannyglade dannyglade 8511 Aug  9 10:15 DG.odt
-rw-rw-r-- 1 dannyglade dannyglade 58 Sep 29 18:53 finalist
-rw-rw-r-- 1 dannyglade dannyglade 36 Sep 29 18:46 list1
-rw-rw-r-- 1 dannyglade dannyglade 22 Sep 29 18:51 list2
drwxrwxr-x 2 dannyglade dannyglade 4096 Sep 29 18:37 unixstuff
dannyglade@dannyglade-VirtualBox:~/Darshan$
```