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**Subject:- Unix & Shell Programming**

**Course:- BCA SEM-V**

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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
```

### 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 document
dannyglade@dannyglade-VirtualBox:~/Darshan$
```

Wc

Wc demo.txt

Lines/words/characters

```
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 > finallist

```

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

```

## Ans 12

### Whatis

Whatis wc

```

dannyglade@dannyglade-VirtualBox:~/Darshan$ whatis wc
wc (1)                  - print newline, word, and byte counts for each file
dannyglade@dannyglade-VirtualBox:~/Darshan$ apropos wc

```

```

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 finallist
-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 finallist
-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 finallist
-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$
```