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## Assignment No.3

1)ls(Display hidden files):-

```
sunbeam@sunbeam-HP:~$ ls
a,b,c,d      ass3_15.sh  Assignment2      cprogramming_80136  hello.c      package.json
ass1_1       ass3_16.sh  Assignment3_4_5.zip  cprogramming_80136.zip  hs_err_pid6793.log  package-lock.json
ass3_0015.sh ass3_17.sh  Assignment6        demo2.sh           Intro         PGDAC
ass3_015.sh  ass3_1.sh   Assignment7        Desktop            java_practicde  Photos
ass3_04.sh   ass3_2.sh   'Assignments 1-5dbt' Documents          LabExam        Pictures
ass3_06.sh   ass3_3.sh   AssignmentSQL      Downloads          Music          prn
ass3_07.sh   ass3_4.sh   AssSQL            Dsa                mygitdata      Public
ass3_09.sh   ass3_5.sh   bookdetails        DSA_230940820041    Name.txt       Question2
```

2)rename(Rename all \*.txt files to \*.htm):-

```
sunbeam@sunbeam-HP:~/one$ rename 's/\.txt$/\.htm/' *.txt
sunbeam@sunbeam-HP:~/one$ ls
111.htm 11.htm 1.htm two
sunbeam@sunbeam-HP:~/one$
```

3)ln -s(Create symbolic link (shortcut) for a file):-

4)ln(Create hard link for a file):-

```
sunbeam@sunbeam-HP:~/OS$ ln -s ~/File.txt ~/link_to_File.txt
sunbeam@sunbeam-HP:~/OS$ ls
File.txt
sunbeam@sunbeam-HP:~/OS$ ln
ln: missing file operand
Try 'ln --help' for more information.
sunbeam@sunbeam-HP:~/OS$ ln File.txt hard_link
sunbeam@sunbeam-HP:~/OS$ ls
File.txt hard_link
```

5)stat(Display time stamp of the file):-

```
sunbeam@sunbeam-HP:~$ stat copy.txt
  File: copy.txt
  Size: 79          Blocks: 8          IO Block: 4096   regular file
Device: 10307h/66311d Inode: 6714869    Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/  sunbeam)   Gid: ( 1000/  sunbeam)
Access: 2023-12-09 15:43:04.539495220 +0530
Modify: 2023-12-06 18:20:29.187565771 +0530
Change: 2023-12-06 18:20:29.187565771 +0530
 Birth: 2023-12-06 18:19:50.287551835 +0530
sunbeam@sunbeam-HP:~$
```

6)touch(Change the time stamp of the file):-

7)touch(Create empty file):-

```

sunbeam@sunbeam-HP-Notebook:~$ touch ABC1.txt
sunbeam@sunbeam-HP-Notebook:~$ ls
ABC1.txt          'dbt gogle notes.pdf'      Music                OOP_230940820004_REEXAM
ABC2              Desktop                   mysql                OOP_230940820004_REEXAM.zip
ABC3              Documents                 Name.txt             OSC
ADS_230940820004  Downloads                 NodeJS_Demo          package.json
commends          file5.txt                 node_modules         package-lock.json
cpp.txt           GD_BollyWood_Today_KD3.odt OOP_230940020004    Pictures
cprogramming_80109 google-chrome-stable_current_amd64.deb OOP_230940020004.zip Public
cprogramming_80109.zip Hacathon1                 OOP_230940820004    Servers
sunbeam@sunbeam-HP-Notebook:~$

```

8)tail(Print all lines in a file from fifth line onwards):-

```

sunbeam@sunbeam-HP-Notebook:~$ cat > Akash.txt
VIRAT
AKASH
DHONI
MESSI
CHHETRI
RONALDO
P V SINDHU
NEERAJ CHOPRA
MANIKA BATRA
MODI
SRIKAR
SAM BAHADUR
sunbeam@sunbeam-HP-Notebook:~$ tail -n +5 Akash.txt
CHHETRI
RONALDO
P V SINDHU
NEERAJ CHOPRA
MANIKA BATRA
MODI
SRIKAR
SAM BAHADUR
sunbeam@sunbeam-HP-Notebook:~$ █

```

9)init 0, poweroff(Shutdown (Only for super-user)):-

-->sudo init 0

10)init 6, reboot(Reboot (Only for super-user)):-

-->sudo init 6

11)whoami(Find current user):-

```

sunbeam@sunbeam-HP:~$ whoami
sunbeam
sunbeam@sunbeam-HP:~$

```

12)tty(Find current terminal):-

```
sunbeam@sunbeam-HP:~$ tty
/dev/pts/0
sunbeam@sunbeam-HP:~$
```

13)who am i(Find current user and terminal):-

```
sunbeam@sunbeam-HP:~$ whoami ; hostname
sunbeam
sunbeam-HP
sunbeam@sunbeam-HP:~$
```

14)users(Find all users logged into the system):-

```
sunbeam@sunbeam-HP:~$ users
sunbeam
sunbeam@sunbeam-HP:~$
```

15)who(Find all users logged in and terminals in use):-

```
sunbeam@sunbeam-HP:~$ who
sunbeam  tty2          2023-12-09 13:58 (tty2)
sunbeam@sunbeam-HP:~$
```

16)grep, egrep, fgrep(Find a given word/pattern from the file):-

```
sunbeam@sunbeam-HP-Notebook:~$ grep  "AKASH" Akash.txt
AKASH
sunbeam@sunbeam-HP-Notebook:~$
```

17)chmod(Make a file as read-only):-

```
sunbeam@sunbeam-HP:~/OS$ chmod 755 File.txt
sunbeam@sunbeam-HP:~/OS$ ls
File.txt  hard_link
```

18)chmod(Make a file as write, read and execute):-

```
sunbeam@sunbeam-HP:~/OS$ chmod 755 File.txt
sunbeam@sunbeam-HP:~/OS$ ls
File.txt  hard_link
```

19)wc (using redirection)(Take input from the file, count words and store output to other file):-

```
sunbeam@sunbeam-HP:~/OS$ wc File.txt
10 12 54 File.txt
```

20)who | wc (using pipe)(Count words in output of “who” command):-

```
sunbeam@sunbeam-HP:~/OS$ who | wc
      1      5     46
```

21)head, tail (using pipe)(Print lines 5 to 10 from the given file):-

```
sunbeam@sunbeam-HP:~/OS$ head -n 5 File.txt | tail -n 10
java
cpp
core java
os
dsa
```

22)sort , uniq (using pipe)(Print the uniq values from the unsorted file):-

```
sunbeam@sunbeam-HP:~/OS$ sort File.txt | uniq File.txt
java
cpp
core java
os
dsa
awp
dbms
dbt
java advance
c
```

26)ls, grep (using pipe)(Display only hidden files in a directory):-

```
sunbeam@sunbeam-HP:~/OS$ ls -l | grep -E '^-|^l'
-rwxr-xr-x 2 sunbeam sunbeam 54 Dec 10 22:46 File.txt
-rwxr-xr-x 2 sunbeam sunbeam 54 Dec 10 22:46 hard_link
sunbeam@sunbeam-HP:~/OS$ ls -a | grep '^\. '
.
..
```

27)tr(Convert file contents into uppercase , also learn "-s" option of this command):-

```
sunbeam@sunbeam-HP:~/OS$ tr -s '[:lower:]' '[:upper:]' <File.txt>output_File
sunbeam@sunbeam-HP:~/OS$ ls
File.txt  hard_link  output_File
sunbeam@sunbeam-HP:~/OS$ cat output_File
JAVA
CP
CORE JAVA
OS
DSA
AWP
DBMS
DBT
JAVA ADVANCE
C
```

28)cut(Split the file contents using delimiter and print required fields):-

```
sunbeam@sunbeam-HP:~/OS$ cut -d 'u' -f 1,3 File.txt
java
cpp
core java
os
dsa
awp
dbms
dbt
java advance
c
```