## USP Assignment

Describe the method to charge the file permission with

- every file in with has the following attendated - owner permission. The owner's permission determine to what actions the owner of the file can perform on the file.

Group permission: The groups permissions determine what actions awas, who is a member of the geroup that a file belongs to, Can perform on the file

other (world) permissions - The permissions for other indicate what action all other were lan perform on the file.

pumission Indicator -

using b-p Command, it displays various information vulated to the permission as follows - 1s-1 / home /amood - 18x1-1 anroad wers 1024 Nov 2 12:50 my file driver - 12:50 my file

r (Read): grants the Capability to read ise View the contents of the file.

w (write) grants the capability to modify on viemous the contents of the file.

2 (excute): user with excute permission can run a file as a programs

The exercence of a file can change the permissions for user (u), group (g), or others (o) by adding (+i) or subtracting (-) the read, write and execute permissions.

There are two basic ways of using chard to change file permission. The symbolic method and the absolute form.

example: chood a+4 my file.

changing aunous and groups
choun The Chown Command stands for "change owned" and is
used to change the aunou of a file.
charp: The charge command stands for "change group" and is
used the change the group of a file.

ex: & chown: wer filelist.

0:2 Bring out the differences between hand user and soft

-> Hard link: A hardlink acts as a copy (mirrored) of the selected file. It access the data available the original file.

Soft link - A doft link acts an a pointer on a reference to the file name.

## Hard link

- 1. Files that are hard linked take the same inode number.
- 2. It cannot be used acress file Systems.
- 3. Hand links are not allowed for distr directories.
- 4. Data present in the original file will still be original in hard trooks.
  - 5. Hard links are companitully faster.

ex: & mkolin Test

& Cd test

& torch sample 1

& sample 1 Sample 2

\$1s-11 sample Sample 2

Files that are soft linked take the different inode number.

It Ian be used across file systems.

soft links can be used for liking directories.

soft links only point to the file name, it does not retain data of the file.

Soft links are comparitively

ex: \$en-s sample 2 sample 3 \$1e-il sample 2 sample 3

13. Use find Command to locate from your home dide dor ai) All file having invole member 9076 bi) del directories having permissions 666 cirii) All files not accessed for more than a year. dill) All but c program file.

And 3ai) Sfinal - imm <inade number>

stiral - imun < 9076>

bii) & find-type d-perm 666

ciii) & find-atime + 365-type of

div. & find-not-iname "#e"

Ans 4 i) Command Substitution is the michanism by which the Shell performs a given set of command than substitutes their without in the place of command.

ex: Date = 'date'
echo "Data is + Date"

Bash which after getting executed shifts I herer command in line argument to are position left ex: & shift County

ili) Trap: The trap Command allows you to Catch signals and execute code where they occur.

I no argument are specified, that fants the list of

trap-e.

iv) here: The most symtox for here so documents originality in thix shells is < followed by a destributing identifier ( & of or from), followed, stanting on & the next by the dentifier an its own line:

- rust chances

ex: - text 1 text 2 text N & marmane HERF

arguments, for any fluence. It should first check where it exits in Convert directory and than Convert its name to uppercase, but only if a file with hew hame des not exist dula de la similar de # i/bin/sh fay ring \* they ad a frage the man of a chatture in [- + & n] then echo "file & x exist :" echo "\$ 2c degn't exist" + "[a-z]' [A-z]' <\$x chief oco fachanie I notative or not find by focute from Hans have discourt ou i) gites usith evention litims up them. i) first framing usede he gotte in and tories having primitation oce in files modeling suitenday -> c) } find f monte- munic " with Lital Prest Links [ [ 1] = proof XStates mad- pay & life Third profit con continued in file tiles - 1 - maini- smith built !

0.6 A file's survent permission are mid-1-20specify the Chined expuesion we quired to change them for the following. i) rwxrwxmvz ii) r lilling both the relative and absolute methods of assigning punissions. 1) chopped at non Frame Jerelative Chood a = rior frame Judative ii) chonged a-run frame I delotine Chronod ooo frame I relative 111) Chmod a-run filename Jarelatine chmod 000 filename Jarelatine a = we find to locate from your home directory all i) files with extention html on HTML. (i) files homing inode no 9076 (iii) disatories having permission 666 iv.) files modified yesterday. -> i.) & find & HomE- hame " \* [Hh][TE] [Mm] [LL]"-print 11.) & find -inum < 9076> iii) & find \$HOME-peu 666-type d-print

iv.) & find & HOME - intime -1-paint

Q= lue find to i-

i) Meanne all files modified within last 24 hrs to form die directory under directory.

ii) locate all files named a out or core in your home directory tree and remone than interactively.

iii) locate file login. Ign in the foracale directory tree

and then copy it to your own directory.

(iv.) Change all directory permission to 755 and all file permission to 644 in your home directory tree.

> i) \$ find. type of - htime-1-exec MV & 3 \$ HOVIE/ pocial, ii) I find v/ C-name - or out - name cone 1) - type of execu

iii) & find/home loxade-name "logia. squ"-evecupl

ivi \$ find & HOME-typed-perm 777-exec chand 755 &91;

\$ find \$ HOME - type if - perm 17]-exec chmod C44 E31;