L. L. 6 - Imp Linux commands

09/mar/2023

read permission to all three categories of file note.

Chmod your note.

ous: Christ ugo+rw noté command can be represented in octal notation as:

B chmod 666 note.

Oues: Suppose you have a file "fi" whose contents are:

here Iseek' is used two time sequentially.

Iseek (n. 10, SEEK-CUR);

Iseek (n.5, Seek-SET); n is file descriptor.

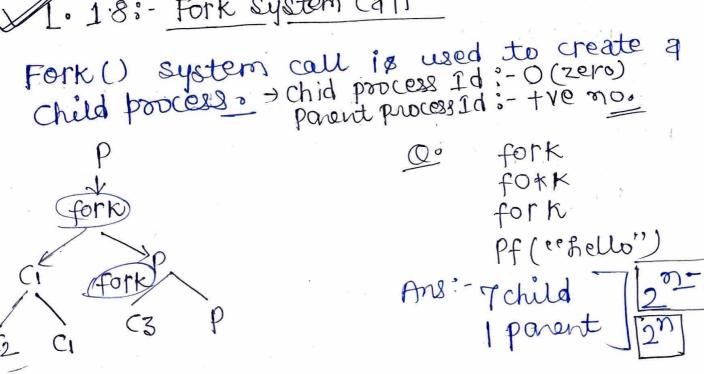
Iseek (n.5, Seek-SET); n is file descriptor.

After applying Iseek two times, what will be current position of RIW head?

(index starts from o).

(B) 5°

## L-1.7; System calls in 0.5. > If we want to access any functionalities, of O.S then we have to use kernal mode. -> System call is a programatical way through which we can shieft from user mode to kernal mode System call :. > File related :- Open (), Read (), Woite (), Close (), create file etc. > Device related: - Pead, write, Reposition, joctl, fontl (file-control) >Information: - get pid attributes, get system time and data. Process control: - Load, execute, about, fork, wait, signal, allocate, etc. > communication: Pipe (), create/delete connection &, Shinget (). 1. 18: - Fork system call Parent process Id: - + ve no.



# include < stdio.h > # Include < unistd.h.7 int main() for (a=1; a < 5; a++) fork(); pointf ("1"); How many time it will point "1" in output. 0. # include <stdio.h> #include < Unista h> int main() % if (fork() && fork()) fork ();
pointf ("Hello"); return 0; How many times it will point "Hello" in output?

## L-1-10- User mode and kernal mode.

## user mode:

3

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The system is in wer mode when the O.s is running a user application such as handling a text editor.

- The transition from ower mode to kernal mode occurs when the application requests the help of operating system or an interupt or a system call occurs.
- The mode but set to I in the user mode. It is changed from I to O when switching from wer mode to kernal mode.

## kernal mode:

- > The system starts in kernal mode when it books and after the ors is boaded, it executes applications in user mode. There are some privileged instrunctions that can only be executed in kernal mode.
- These are interrupt instructions, input output management etc. If the priviled instructions are executed in user mode, it is illegal and a trap is generated.
- The mode but set to 0 in the Kernal mode.

  It is modified from 0 to 1 when switching from Kernal mode to user mode: