Pseudo Char Driver:-	Char Devices
Every driver is a module , but not vice versa	Block Devices
Device Driver:-	
* Char Drivers	
* Block Drivers	
* Network Drivers	
* Misc / sub systems	
Device Special Files (Device Node Files):-	
Interfacing drivers with userspace	
Is /dev	
13 / 42 V	
/dev/ttyS0 ==> Regular UART Driver	
/dev/ttyUSB0 ==> USB-UART	
/dev/i2c-dev	
/dev/spidev	
Books:-	
* Linux Device Drivers (LDD), 3/e, by Rubini	
* Linux Kernel Development(LKD), 3/e, Robert Love	

ls -l /dev/ttyS0		cscope - vi
Is -I /dev/lp0		:q
ls -l /dev/sda*	# Internal HDD, SATA	alloc chrdev region
	# USB Storage/Pen Drive	copy_to_user
ls -l /dev/mmcblk0		cdev init
13 1 / GCV/IIIIICDIKO	T SD Cara	<u>cacv_mrc</u>
First letter in "ls -l"	output	struct task_struct {
	·	struct file_operations {
stat /dev/ttyS0		struct inode {
stat /dev/sda1		
		sched.h
Device ID ==> N	Major number + Minor number	
cat /proc/devices		
Activity:-		
* Driver code upto	Step-3	
* User space code	<u> </u>	
OSCI Space code	LEGA DIO	
* Pre-read list and	KIITO APIS	

```
fd=open("/dev/psample", O_RDWR);
if(fd<0) {
     perror("open");
char str[]="abcdxyz";
nbytes=write(fd,str,7);
if(nbytes<0) {
     perror("write");
char buf[64];
int maxlen=64;
nbytes=read(fd,buf,maxlen);
if(nbytes<0) {</pre>
     perror("write");
write(1,buf,maxlen); (or) buf[nbytes]='\0'; puts(buf);
close(fd);
```