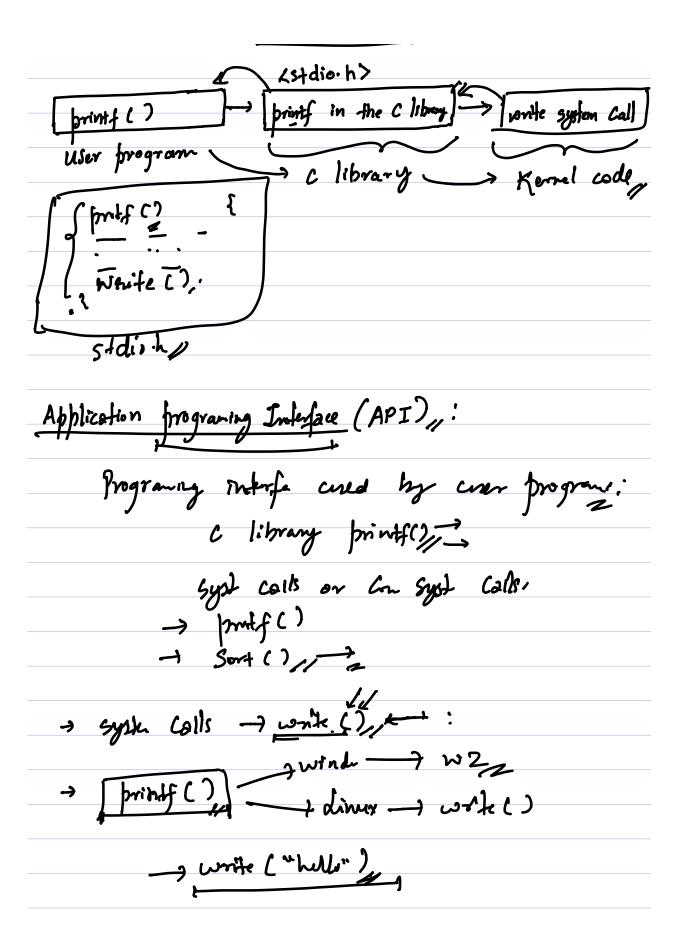
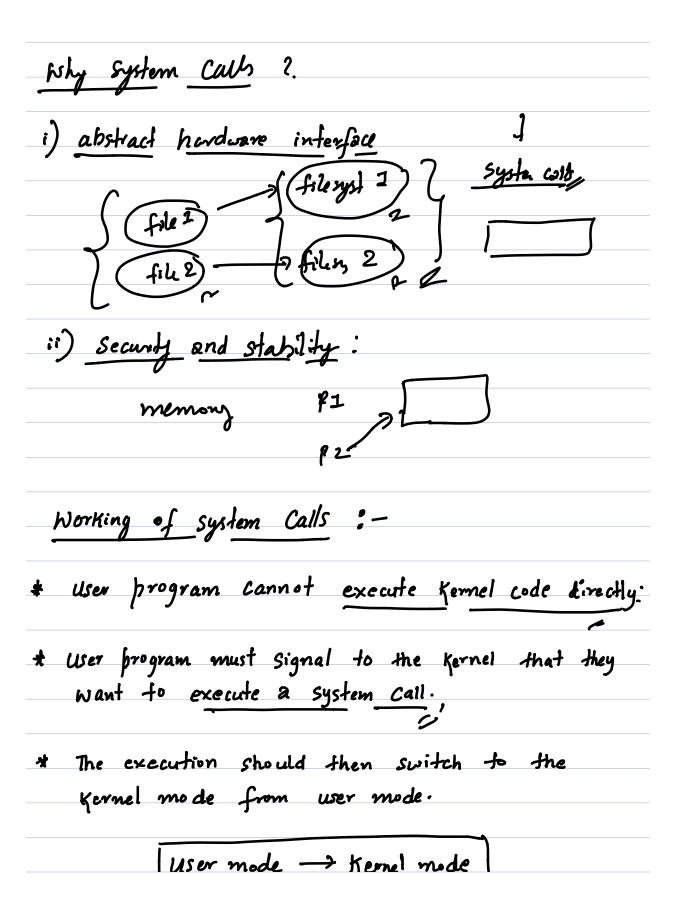
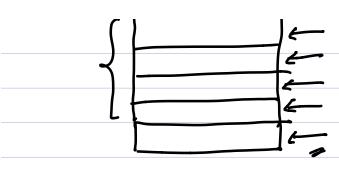
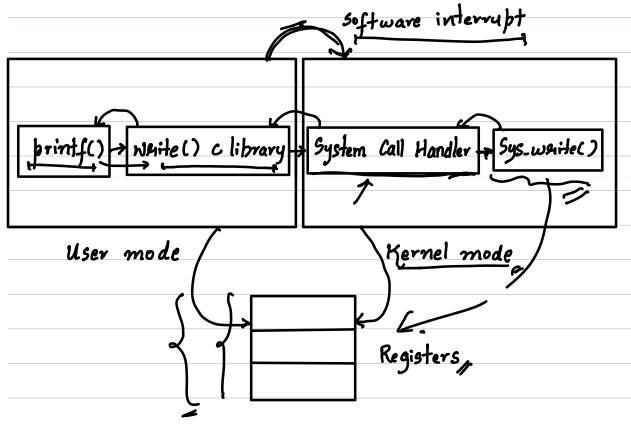
System Calls 1. What is a System Call ? V 2. why system calls are needed? V 3. How System Call works? V 4. Examples of system Calls V System Call,: Hardware How does the opp talks to the OS? System Calls: Thue provide a layer betwee the user program and the hundren prinf ("hello"); Screen





Hew this switch can happen?
prints() write() c 1.hrung
c 1.hrung
Interrupts:
9t Buspends the Current proce on a
pround and the processor them executes an
processor and the processor then executes an interrupt handler
Software: Divide by Zero:
Hardware:
·
Tietement handler : Kennel mode
Cause Some Software interrupt : system Cally
-> Surlem Call Handler 128/
System Call Handler 128
-> Syryte Call: Unsque Number
while (" ').
X = Syscall number





Does Context Switch happens during system call?

* Context switch: Storing the state of a process before
Switch happens

- Register Values
- Program Counter

No Context switch happens
(White () -> Blocking Call?
Swhite () -> Blocking Call) Read () ->
* -
waiting state
Context Swil: - Block Syster Cally
Frankles *-

•	Windows	dinux
Process Control	Create Process ()	forkez 7
	Exit Process ()	exit(),
	Wait For Signal Object () /	wait()/
file Manipulation	Create File ()	open()
	Read File ()	read()
	Write File ()	write ()