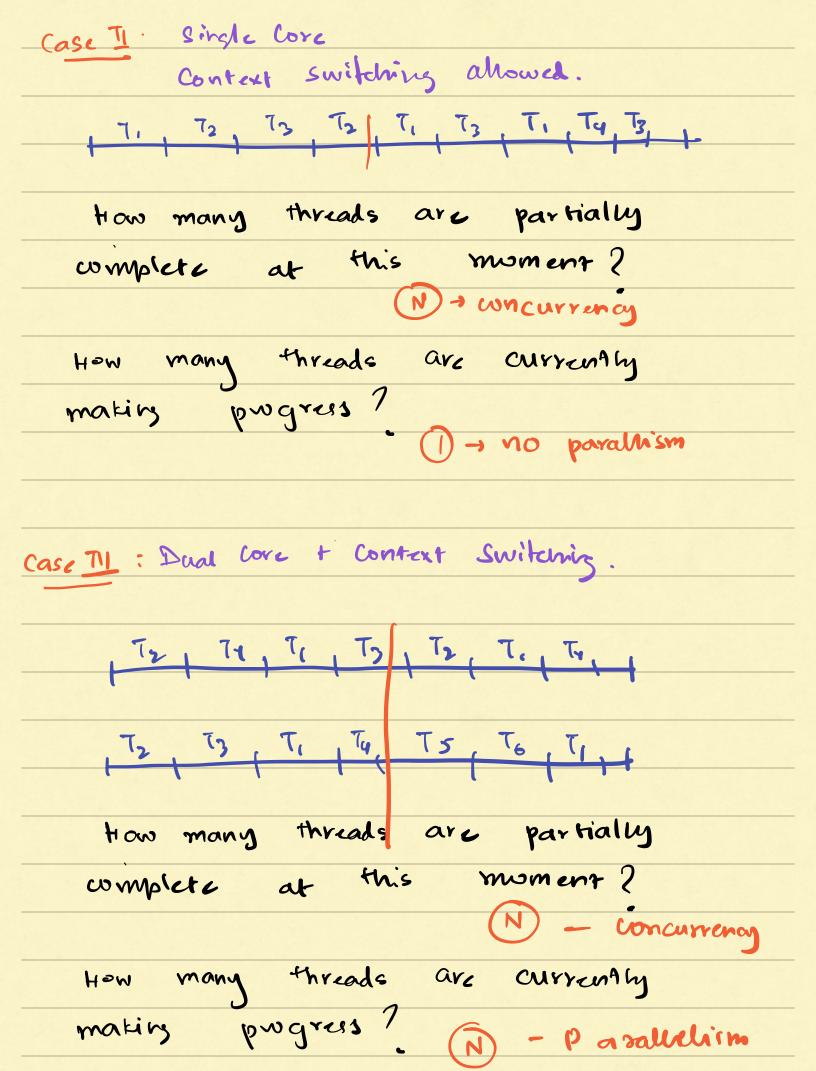


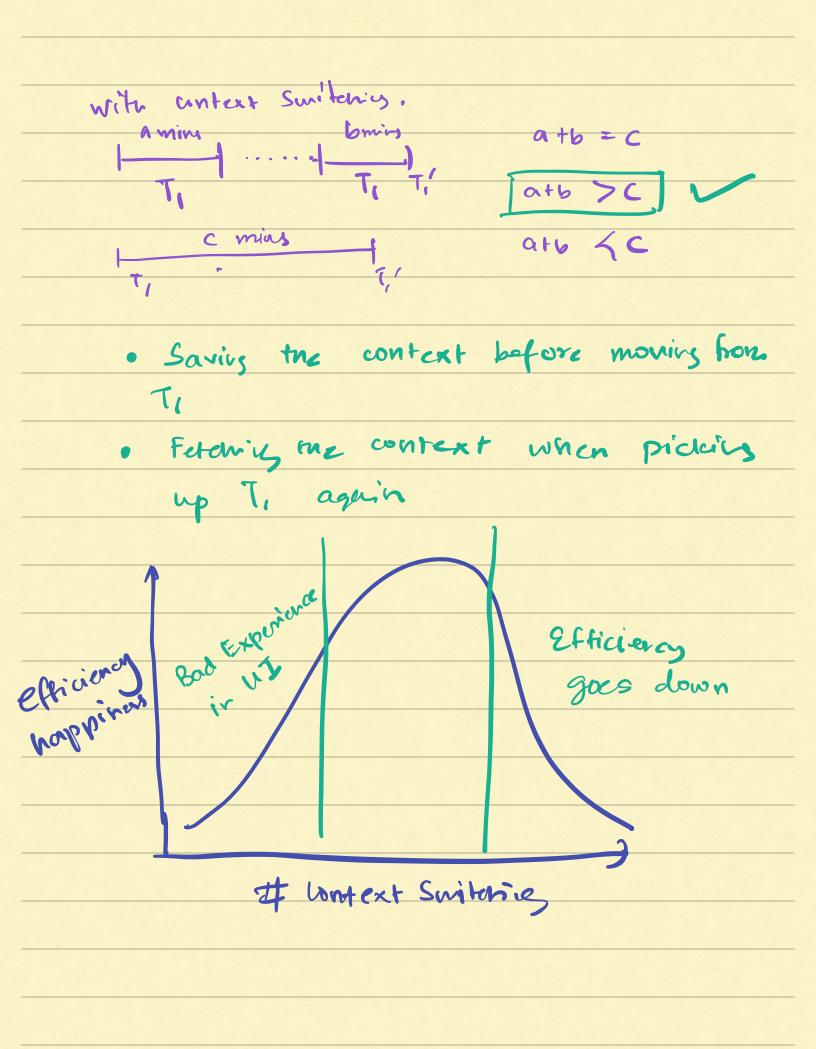
light weigh ProceuX Threads Sub process x smaller anit of execution V thread is what a CPU executed hist (variables) registers List (threads) - memory Threal Thread? Thread? Rogran Rogran Rogran Come a Come a Come a Lattick Lattick Lattick e A process will have attrast one threat. . Data Shaving is easier in between threads · Creation of process is expensive compan-8 to threads Ms-Word! - Auto Save -> PI Auto speli Check/corret=> P2 takes imput + P3 Visually renders it. > P4 - search

comext	Switching	:		
5 Threads				
 τ	T2 T3	T, T, Tu	1 12 77 11	T3 T3 T4
			CDIA -	rhedules
			Scheduler	which
			J	torun
			Round	Kobin.
Single	Core	Vs Mutic	iore	
VIII		VIII	VIIIA	
			1///	
			L3 4:	quad core.
1 vorc =	1 threa.	s at a	mament.	·
4 cora	2 4 thr.	eals at	mom gri	ent.
13:	dual love			
	gnad core			
	val core	+ Hyper	threaling	
			0	

Break	HU	:	8	15
		1000		

concurrency Vs Parallelism:
caseT: Nhon there is a single core
· There is no context switching,
ie each thread completes then
moves on to anothe threat.
THOUGH BY
7 72 13
T T2 T3
trow many threads are partially
complete at this moment?
1) -> no concurrency
har man of the la Circ. Only
How many threads are currently
making progress?
(D) -> vv parallelism





How to write a muntitureal progra	M
1. Define your fask:	
Create a class: HelloWorld	
2. Implement Runnable	
Class Helloworld implements Runnall	el
voil run () E	
, 7	
3. Crease a Thread and give	
this class object (task object)	
to the thread.	
4. Start running the Threal.	