Chapter 24
multithread
benefits: 1) responsiveness 2) resource sharing
s) eronomy 4) scalability
pavallelism: system can perform more than one task simultaneously
core 1
concurrency: Support more than one task making progress single core T ₁ T ₂ T ₃ T ₄ T ₁ T ₂ T ₃ T ₄ T ₁ time
speed up in lowercy $(L_2, L_1) = \frac{L_1}{L_2}$.
speedup < 5+ (1-5) S: Sevial (woncurrency) portion N: we number
multitheading modes:
1) many - 10 - one: kernel is limiting parallelism
2) one- 10- one- kernal may limit or run out of resource.
3) many - to-many: kernel needs to manage threads
asynchronous concellation: terminates the target thread immediately
deferred cancellation: check periodically target thread should be terminar

Chapter 5
CPU-I/O Brist Cycles process execution consist of a cycle of
CPU execution and I/O wait
decision take place in:
running terminate
ready waiting
preemptive 1s. nonpreemptive: a preemptive scheduling schene
could terminate the process while running, and it might
result in race condition
dispatch latency: time taken for stopping one process and stort
running another
Algorithm schone drawback.
FLFS non convey effect: short processes stuck at the end
of FCFS que
LCFS non visk of starvation
SJF non nuknown CPU brist time; risk of Starvation
There = 2 tn+ (1-2) In
usually acticl estimate //2 time time.

Round-	preemptive	7 th	ne gu	antum q is large, it is	almose
Robin		Same	as	FCFS.	
Prioraty	non	risk	07	starvation	