* Dead lock Part: - 2 1/01

Deadlock avoidance: Idea til, the Kernel
be given in advance info Con Cerning Whise
relources Will use in life time.

a way that DL never thoughton occur

· Safe state: - A state where system can allocate relowers to each process Upto its max) in some and still avoid DL.

ino do

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undafe State]: - OS Cannot prevent recommendate processes from requesting resources in such a way that a deadlown occurs:

· To find Whether the System is in safe State or not me me algorithm called "Banker Algorithm".

Banker Algorithm :- When a process request a set of resources, the system must ensure that due allocating these resources will leave the system in a safe state, if yes, allocate it if not, then process must wait till other brocess release enough resources.

Same as how Bank manages Bits funds to avoid Coshout issue.

SIP

		Page No.: Date:
	•	Deadlock detection: - System doesn't implemented
		any deadlock-prévention or avoidance technique,
	1	So now we defect the deadlock
	Jun	
	6-	(9) Bingle-Instance):- Fach resource istissingle
		instance, a deadlock exist in the system it
		and only if there is a cycle in the wait - for
August Lax		graphit silitu uno un dost de lovero whose)
		Total and was hit at an maint
		The All the season with the at the season with
	- 11	
		R2 (62)
	4	(Wait For Urraph)
1		(RAU) 720+8 (8H)
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	Later -	(b) Multiple- Instance for each resource !. use
		Bornker algorithm.
		and the state of t
	•	Recovery from deadlock
11-12	$\frac{\alpha}{2}$	Process termination: DA bout all & processes Which are involved in deadlown.
		Which are involved in deadlown.
		Which are involved in dead tour. (i) Second way :- About one process at a time, until deadlock is climinated.
1		until deadusch is eliminated.
	10	
	40/	Resource preemption! - OS preempt & resource from lower priority to higher priority jobs in
1 5 0 7 5		pon lower pronty to righer poonty jobs 17)
4. 11. A4. 119 1 1. P. 1. M		order to eliminate & Deadlock eyele.
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