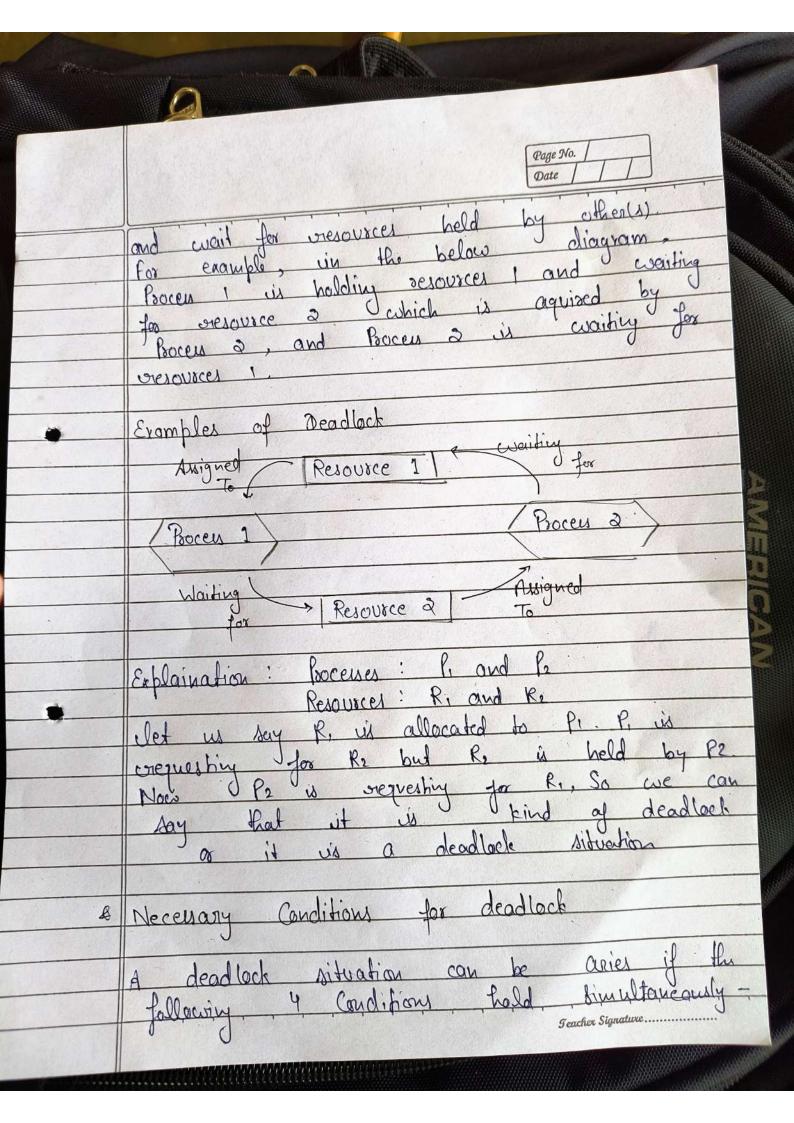
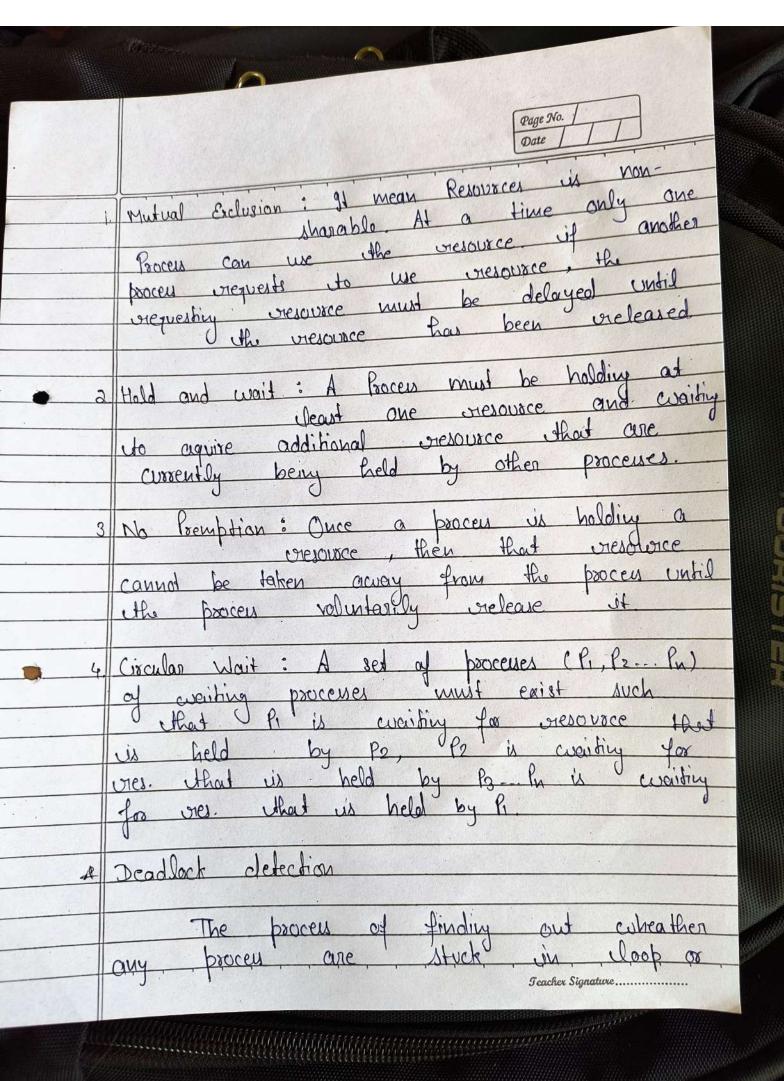
	Page No. Date
	DEADL.OCK
	Charatica Custem
	Introduction of Deadlock in Operating System A deadlock is a situation where a Set of processes is blacked because each process is holding a presource and cuaiting for another presource aquired by some other process.
P	A situation in computing where two or note processes are unable to proceed bereach is waiting for the other to please cresources key concepts includes, nutual exclusion, resource holding, circular wait, and no preemption.
-1	ow does Deadlock occur in the OS? not situation of deadlock in occuser Then some processes hold some resolution Teacher Signature.





Cauge No.	not There are derival algorithms with or Reservace Allocation Groph	A Methods for Handling Deadlack There are 3 ways of bandling deadlacks:	1. Deadlack prevention or avoidance: Deadlack can be brokented by preventing at clear one of the four instring Canditions. Either try the remove all your canditions or one effective four canditions or one effective four canditions.	The t	the system recording in the first phase for the cappy of the cappy of the cappy of the cappy of the problem all together of its very vage.

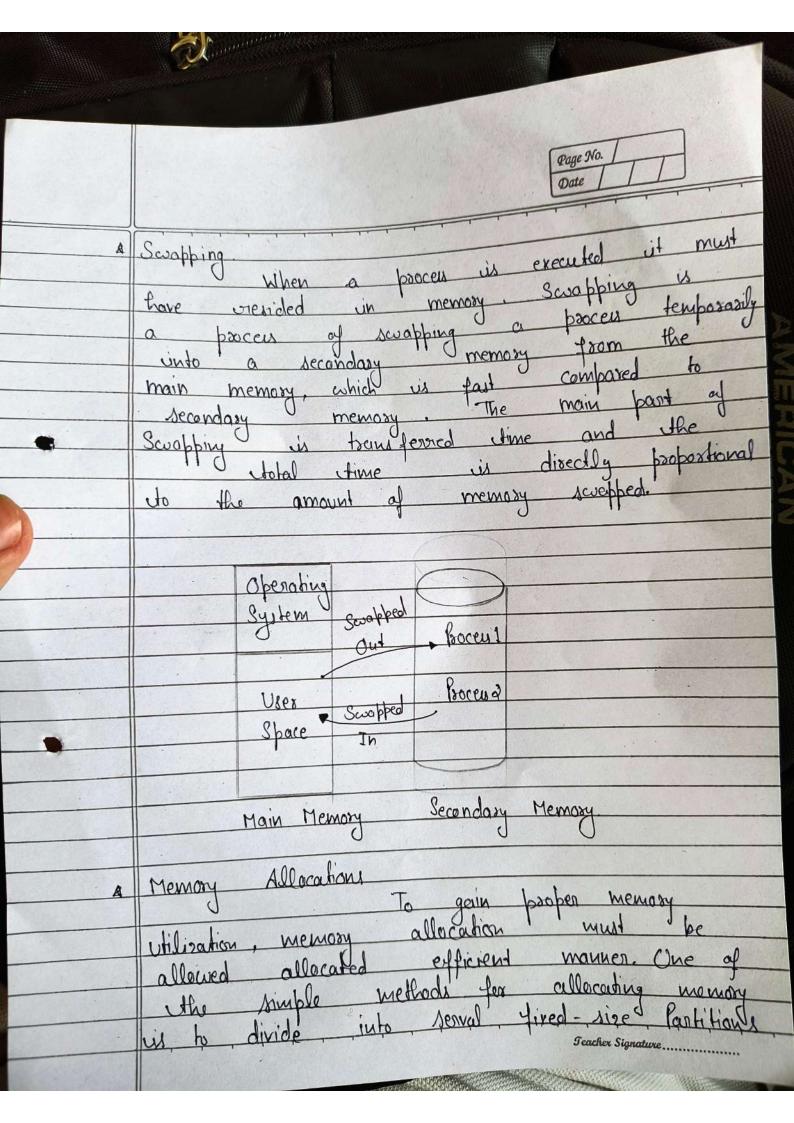
Page No. |
Date | | then let it happens and vieboot the system. This is the approch that both crindres and UNIX take we use the ostrich algorithm for deadlack ignorance. In deadlack, ignorance penformance is betten than the above two methods but the Correctner of data is not there.

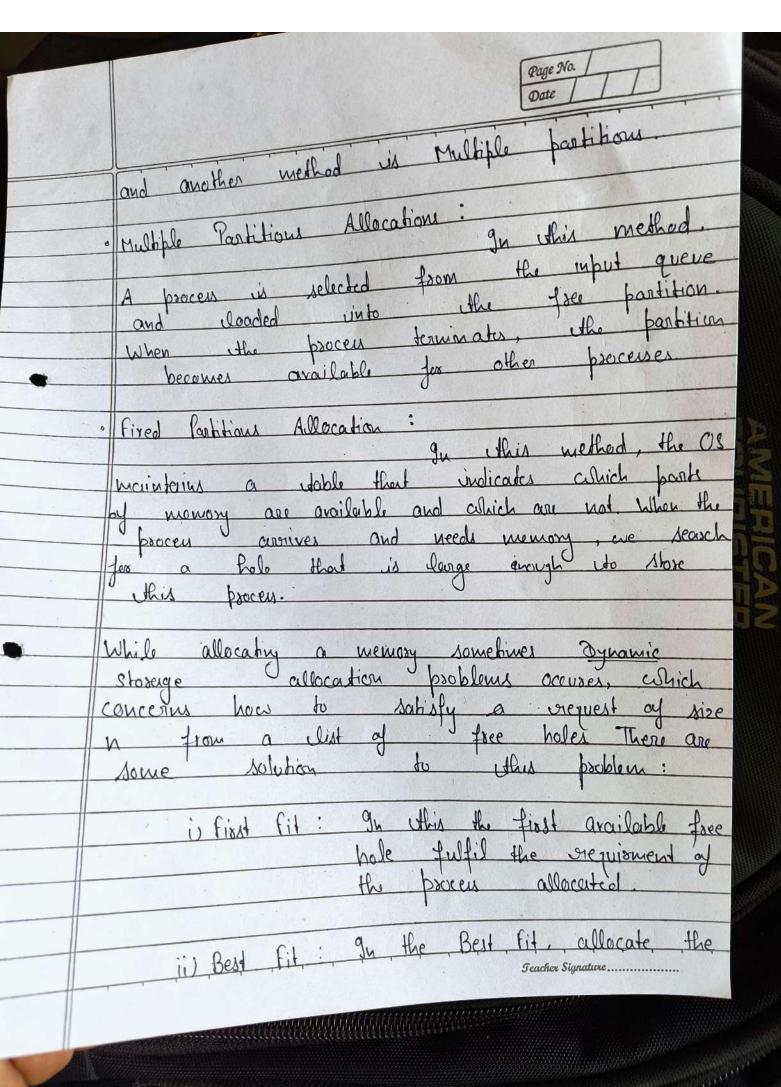
	Page No. Date
	MEMORY MANAGEMENT
	Before we start Memory management, let we know what is main
A	Main Memory: Main memory is the place chene programs and informations are kept cohen the
	them Main memory is also known
A	Memory Monagement: Ju a multiprogramming
•	resides in a parts of memory, and the great is used by multiple processes.
	among different pacceuses is a called Menory Management. The main
	efficient utilization of memory.
	Why memory management is required. To allocate and deallocate memory Feacher Signature

and an enterior

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Date |

		boces execution k of used memosy space	
	before and offer	is a used memory space	
	1. To keep trace	N 9	
	by process. To minimize	foragmentation issues.	a. and
	· To minimize	tilization of main m	emog
•	o to proper	finagmentation issues. utilization of main main main oil data integrity while of process.	
	· To main	al brocess.	
	executing	ay puss	
	l Pl	Address Space	100
. &	Logical and ing	nical Address Space	11
Os m		N DIAP	icated_
	Logical Address sp	by the CPU U	3
	1 0 0 "1	porical Address ". 9t is a	lia_
	KNOWN (1)	bonce: An address geno by the CPU is Logical Address. In our cal Vistual Address. Logical can be defined as af the process. A can be changed	
	KNOWN OR OF	can be defined as	
	Ciclosers space	of the process. A	
	the adalases	com be changed	
	The state of the s		
	Or a Address of	pare: An addrew Seen	by
	Physical Address A	1 the morning	
	O Laure No.	as a "Physical Address	A_
	(All	also known as a	. 0
	Physical Address Real Address	The set of all T	nysteal
	11 000	i in these we	
	- GOOD COTOS	ponding known as Physi	carl
	addresses is		
	address	pace	
		Teacher Signature	





Am	
	Page No. Date
	smallest hale that is big enough to smallest hale that is big enough to process onequisments success the coast fit, allocate the clargest available hale to process
A	Evagmentation: Esagmentation is defined as
	and oremoved after execution from memory, with creates a small free thate. To achieve a degree of multiprograming, we must create the coaste of memory types of frequentation problems. In the Os two types of frequentation:
	is Internal freignentations: This occures when the memory blocks are allocated to the process more than their
	in External freignentation: The this, we have a free memory block, but we can not aways it to a process bee blocks are not Contiguous.
<u>A</u>	Paging: Paging is a memory inchangement Paging: Scheme it hat eliminates the need tox a contiguous allocation of physical
	Memory Seacher Signature