ASSIGNMENT 2

22CST404: OPERATING SYSTEMS

1.	Consider a system consisting of m resources of the same type, being shared by processes. Resources can be requested and released by processes only one at a time. Show that the system is deadlock-free if the following two conditions hold:	
	i) The maximum need of each process is between 1 and m resources	
	ii) The sum of all maximum needs is less than $m + n$	3
2.	Compare the memory organization schemes of pure paging and pure segmentation wirespect to the following issues:	ith
	(i) External Fragmentation(ii) Internal FragmentationCO)4
3.	Explain with the help of supporting diagram, how translation look-aside buffer (TLI improves the performance of a paging system.	
4.	Discuss various methods of file allocation with advantages and disadvantages. CO)5