Assignment #05

1. Consider the scenario that there are five processes in the system, i.e., P_0, P_1, P_2, P_3, P_4. A, B, C, and D represent four resource types and the following table is the snapshot of a system. Please find the physical meanings of the Allocation, Max, and Available matrixes in Slide M05b.

	Allocation	Max	Available
	A B C D	A B C D	A B C D
P_0	0 0 1 2	0 0 1 2	1 5 2 0
P_1	1 0 0 0	1 7 5 0	
P_2	1 3 5 4	2 3 5 6	
P_3	0 6 3 2	0 6 5 2	
P_4	0 0 1 4	0 6 5 6	

Q: Is the system in a safe state? If yes, please provide one possible safe sequence; if not, please explain the reason. You may use the **banker's algorithm.**