a-Consider following and generate a solution to find whether the system is in safe state or Not ?

Banker's Algorithm

Available				Processes	Allocation				Max			
A	В	C	D		A	B	_	D	А	B		D
1	5	2	0	Po	0	0	1	2	Ô	0	1	2
				ρ_1		0	0	0	1	7	5	0
				P2	1	3	5	4	2	3	5	6
				ρ ₃	Ò	6	3	2	0	6	5	2
				P4	0	О	1	4	0	6	5	6

D we have to find need? [Need = Max - Allocation]

	Need										
ρο	A	B	C	D	-						
ρ_{o}	0	0	0	0							
P2	0	7	5	Ô							
Pz	1	0	0	.2							
Pz	0	0	2	O							
P ₄	0	6	4	2							

2). Now we have to determine safe state-?

Available is 1520

D) Po heed 0000 and available is 1520 So Po is executed.

New available is (Available + Allocation)
(1520+0012)
(1532)

- 2) Proposed 0750 but when we compare with available 1532 it is not satisfying the Condition. It moves to P2 without executing P1.
- 3) P2 need 1002 and available is 1532 P2 can be easily executed.

New available in (1532+1354) =(2886)

4) P3 need & B CD and available in 2886 P3 can be execute.

New available is (2886+0632)=(214 118)

Py can be execute.

New available is (214118+0.014)=(2141212)

6) Gobruk to P, and the need of P, is 0750]

and new available is (2 14 12 12) and
hence now P, can be execute.

Now we can say that system is in safe.

Process execute like [Po; P2>P3>P4>P1