Aim :	To implement			banices Algo			porthm.  I Available	
	A	В	√ C	w A	B	- 4	-A	B
Po	0	0	1	0	0 1		2.6	
PI		٦	5	w <b>j</b> r	0)40			
P2 1	٠ <u>٠</u>	3	5	* h	3 5			-
<b>P</b> 3	0	6	5	Ó	6/13/	1		
Total				2	9 9	1	, 5	2

Need = Max - Allocation

4114	Ne	Ed 1	7.40	
	A	B	С	
Po	. 0	0	0	•
PI	0	7	51	
D2	4/01	10	0	
P3	0	0	2	

Safety Algorithm.

Klork = Available

Finish [i] = false = = 0,1,2,3

Need 
$$1 \le 0.00$$
  
Need  $2 = 0.00$   
Need  $2 = 0.00$   
Need  $2 = 0.00$   
Final [0] = Tive  
Po Hork =  $1.5$  3  
Need  $1 = 0.0$  7 5  
Po Need  $1.5$  North  $1.5$  0 1 0 0  
Po Need  $1.5$  1 0 0 0  
Po Need  $1.5$  1 0 0 0  
Po Need  $1.5$  2 1 1 3 5 1 1 3 5 1 1 3 5 1 1 3 5 1 1 3 5 1 1 3 5 1 1 3 5 1 3 5 1 1 3 5

P3 Need 3 = 0,0,2 Needs L = Work (01012) 2 (21818) V finuh[3] = time Mork = (0,0,2)+(2) (218,2)+ (0,6,3) Mork = (2 14/11) Need , = (0,71)5 P2 Need 2 & = Work (0(3,5) < (2,1,4,11) Hork = finish [2] = True Mone = (2,14,11) + (1,01,0) Mork = (3, 14, 1) Finch [i] = true tor 0 < 9 < 3

trence system in satestate

Fingh = [T | T | T | T |

Safe sequence & < PO, P2, P3, PD

req 2= Need (01512) 2 (01715) V

deg1 < = Available

(01512) c=(11512) V

Available = Available - sequiti = (11512) - (01512)= (1010)

Allocation = Albeation + degrests = (1,0,0) + (0,5,2) = (1,5,2)

Need = Need - squest = (01715) - (01512)= (01.2,3)

Cheix for sale sequence

1 St 121, ad 28 SAMED

	Ma		Atlo cal	Action to the second	Available.		
	A	Bec	73/0	BC	ABC		
Po	0	0 1	0	0 1			
PI	1	7 5	1 1	5 2			
P2	2	3 3	1 Huk	3 5			
P3	0	6 5	. 0	6 3	10%		
total			2 40	44 911	0.0		
		41	(1,017	1 - 6	Need		
		*	, JUEZ	-Lala	FUE B C		
	(	(2,2)	1)+(1	Poi	0 000		
			(2,8)	PI) C	2 3		
				P2 1	0 0		
			Acald	B 0	0 2		
sat	fety Mo	gonthm ;	1815) 3	(2)			
	Work =	= Availab	ole				
Э	finuh =	=   +   +	1 20	- F 17 17 17 18			
	KI	[20] 그렇게 15일이 16일 12일 - 12일		3	16 cl 11		
Stop-	<u>star-1</u> (P,P,=).						
	Needo <= Work						
Po			((0,0)		V 34		
	Work	= (1	0,0)	+ (01	0)1);		
		= (1	(1,0,	fini	uh (0) = True		

45-(2) (2V)

final CIT= the OZIZ3

Hence system is in sate state

The safe sequence 1s LPO, P2, P3, P1>

You we can grant sequest immediatily

(11)		A	B	C	
	Po	0	0	0	
	<b>P</b> 1	0	7	2	
	P2	0	7	2	
	Pz	50	0	2	

- (IV) Yes, It saturated safety Argonium (IV) < PO, P2, P3, P1>
  - (v) kes, H-Banken Algorithm grant Dequest immediately
  - (M) New Table + safe source.