Step 11: Ik is available T in Trequired flipflop

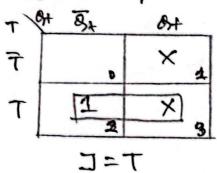
Stepi2 Chanactenistic Table.

(Trent)	(Azert)	(hvh) 2(f+1)	7	K
0	0	0	0	×
0	t	્રા	×	0
•	0	1	1	×
l	1	0	×	١

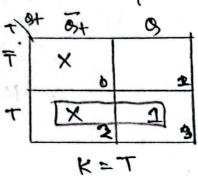
Excitation Table of JK

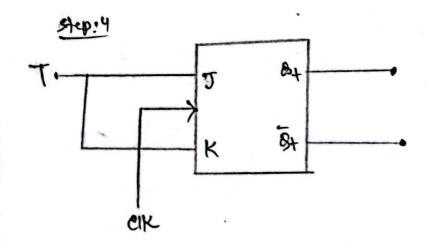
8t	8441	١	K
0	0	0	×
0	1	1.1	×
1	0	×	١.
1		×	0

Step:3 For J the Konop



For Kth Kmap





2) JK flipflop to D flipflop

1D: e233191

Step: 1 IK is available T in required.

Step 2:

Characteristic Table.

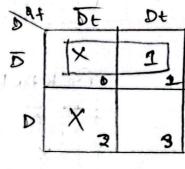
D	8t	8(1+1)	. 7	K
0	. 0	0	0	×
0	(	0	X	1
1	0	(	1	×
1	l	t	×	0

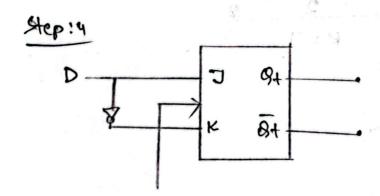
Excitation table for JK

0>1	8(44)	73	K
0	0	0	X
0	1	1	X
- 1	0	×	1
1	11	X	0

Step 3: Kmap for ]

K map for K





3 D to T flipflop convension : 10: C233191

Stop1: Die available T in required flipflop.

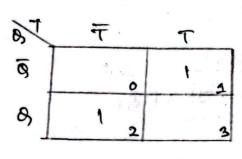
Step:2. Chanacteristic Table

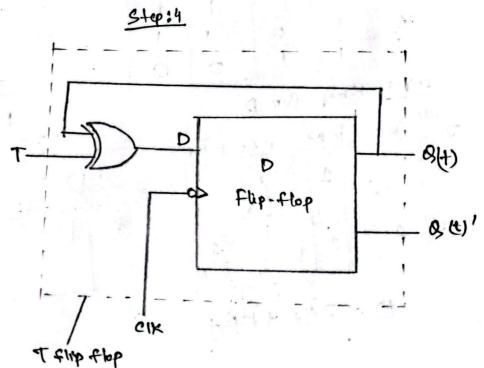
-	-
84+1	D
0	0
1	1
> 1	1
0	0
	> 1

Excitation Table of D

84	D	8(41)	
0	0	0	
0	į <b>t</b>	1	
1	ь	0	1
q	1	1	

Step 3: Kimap fon D.





AD Captlep to JK Aip flop.

JD: C233191

Step 1: D in available and JK in nequined flipflop.

Step 2:

Chancetenistic Table.

7	K	8+	8(+1)	D
0	0	Ø	0	0
0	b	1	l	1
0	1	0	0	0
0	,1	t	O	0
1	0	Ō	(	1
1	D	1	•	or god \$
1	(	0	•	1
1	1	)	0	0

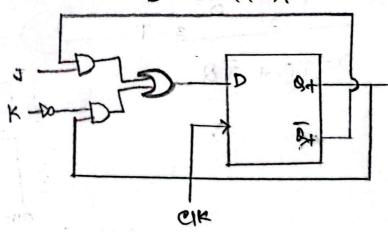
Excitation Table for D

8+	8(4+1)	D
0	0	D
0	1	1
•	0	0
1	(	l

step:3 Kmap for D

1	F 04	F Bt	EBA	K 84
5		1		- 3
+		1	3	7
7	1	1		1

5+60;4 D= J& +R&+



5 T flip flop to JK flip flop ID: C233191 Hep1: T in available and JK in required flapflop.

Step 2: Chanacteristic Table

ם	K	8+	B(£+1)	T	
0	0	0	0	0	
0	0	1	1	0	-
D	1	O	0	0	
0	1	l	0	ı	-
1	0	0	١	1	Street, Square, or other Persons.
l	0	1	1	0	-
l	(	0	1	١	-
l	(	(	0	١	

Excitation Table of T

8+	B(+41)	+
0	0	0
0	11	1
1	0	l
1	1	0

Step:4 T= Jat + KBt

