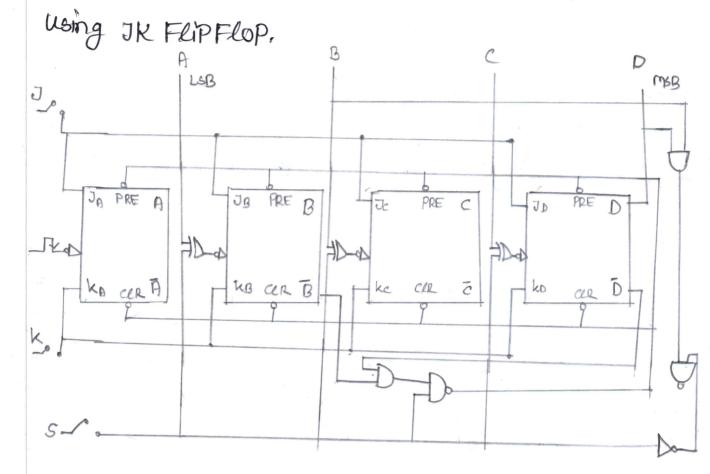
Assignment 02

1) Design MOD 10 UP/Down Asynchronous Counter.



Operation: when s = 0, For 10 to 9)

PRE=1, CLR=1

Normal clock openation (PRE=1, CLRz1)

For, 10

PRE 21, CCR 20

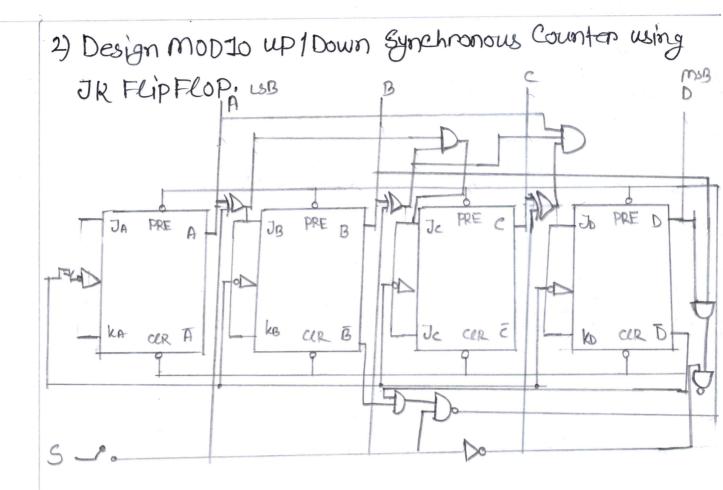
A=B=B=C=D=O

This counts 0 to 9 Bo this is UP Counters When S=1, For.

A=B=C=D=1

PRE 20, CRR 21

This called Down Counter.



Operation:

$$A=B=C=D=0$$
This is a UP Counter

Whe
$$S=1/(10)$$
.

PRE= 0_1 CLR= 1 .

 $A=B=C=D=1$

This is a Down Counters.