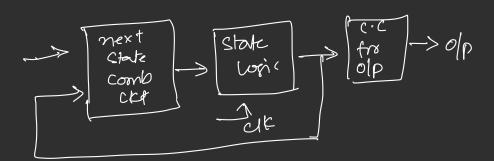
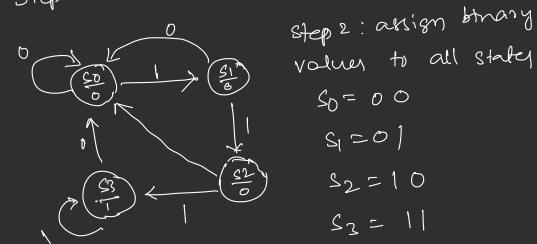
Design a segnence detector which detects three consecutive i's lusing moore model:

moore model:



Step!: Obtain state diagram



Step3: obtain state table N.S(X=1) 0 (X=0) 0/p (X=1) M.S(x=0)1P.S QQD a do Q1Q0 0 0 0(50) (02)00 0 01 (51) 0 10 (52) 0 (So) 0 1 (Si) 00 10(52) 0 (S₃) 00 (5) 11 (53) 00 (SO) 1 (53) FIF: J-K + lip fcop Chooce Step 4: Excitation Excitation table stops: trip flop J-K M.S AF y (0b) QL Qn+1 2.5 On Open JK 514 50 Ko 0 Q, 90 9 Q Q O 00 00 0% OK OX O () O 00 <u>ර</u> 1 01 15 0 0 0 XI \mathcal{O}^{\times} 01 00 0 10 RI 01 KIOX в 10 00 1 1 70 0 K1 Χl 00 $I \times$ $\mathcal{O}X$ 06 0 01 \bigcirc XI \mathcal{O} IX 0 V O O17 1x Ô X D XO

1

X 0

obtain Apilpfn tolp function Step 6: J1 = Em(5) + Ed(2,3,6,7) h, = sm (2/3) + sd(0,1,4,5) V100,011 QD J1= 7 Q0 / Ko= \(\bar{Q} + \bar{Q}\) = \(\bar{Q}\) lly Jo= 7 Y= TQ1 Q0+7Q1Q0= Q1Q0 Styr: weic diagram Stop 8: write ventos code for JC FIF then instantale design