State Transition Table :-
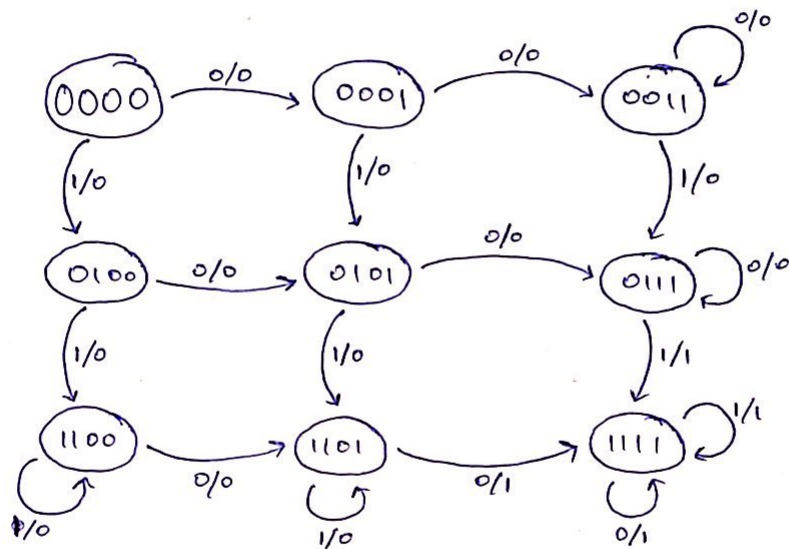

In the state

(ABCD)

AB are for keeping count of no. of 1's
& CD are keeping count of no. of 0's.