NAME: RAJ SHAH K M VA VA ROLL: 2021CSB065 SUBJECT : TOC HOME TASK 5 Li = { n ∈ fo,13\* | n contains 1101 as substring } (1) DFA M, such that L(M1)=L1 90 1 91 1 92 0 93 1 PD L2 = {y ∈ {0,1}}\* | Here exist a x ∈ L, enactly one bit of which is the ped to obtain y Il Now superesentation of La will be something as follows DEA M. : POq NFA MZ: So we need to take into account all positions where bit can be flipped and then plug it isto the scelerant State of copied DFA for 80000 processing.

NFA 0 1=0,1,2,3,4 where i = 0,1,2,3,4 where (21,6) copies of DFA

1 110