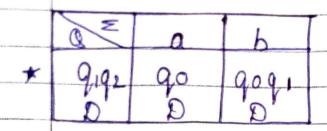
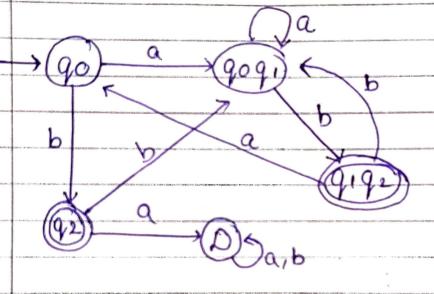
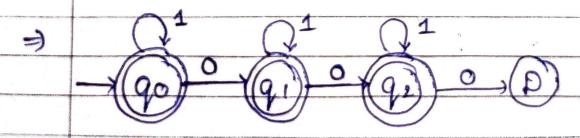
Beigal Agrawal
Batch H2 Roll No-27 Date: __/__/ TOC Theory Assignment - 1 Batch-2 DFA equivalent to NFA. Transition Table of NFA: Transition Table of DFA: 9091 #learnthesmarterway



Transition Diagram of DFA:



- 2) Design a FA for the strings containing at most Two 0's.
- =) Possible Accepted String: [0, \xi, 1, 00, 01, 011, 001, 101...\xi



J Identify a regular Expression to denote language over == {0,13 for all strings that do not end with 01 → Possible Accepted Stripping

Possible Accepted Strings.
[£, 0, 1, 00, 10, 11, 000, 100, 110, 010, 011, 11]

etc.

The Expression £+0+1 describes the strings with length zero or one, and the expression (0+1)*(00+10+11) describes the string with length 2 or more.

4) Discover the language accepted by the RE= (1+10)*

Strings =) { 1, 101, 110, 111, 1, 1010 - - }

=) Strings with input symbol (0,1) starting with 1 but not having consecutive zero