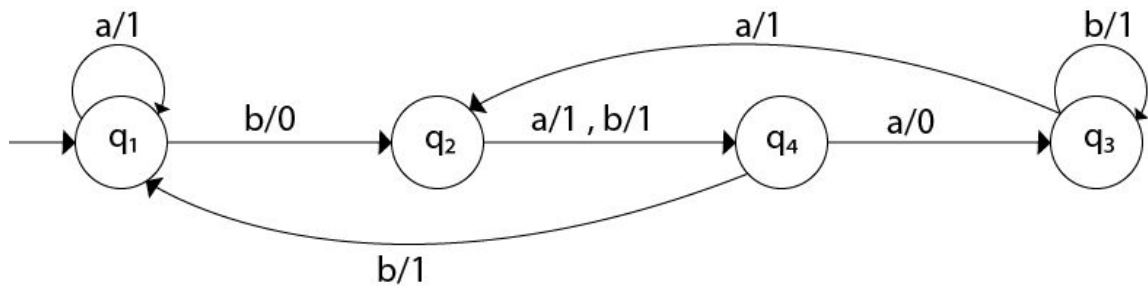


Department of Computer Engineering, SVNIT, Surat
Tutorial – 5

- 1 Write difference between Moore Machine and Mealy Machine.
- 2 Define:
 - a) Moore Machine
 - b) Mealy Machine
- 3 Construct a Moore machine that determines whether an input string contains an even or odd number of 1's. The machine should give 1 as output if an even number of 1's are in the string and 0 otherwise.
- 4 Design a Moore machine with the input alphabet $\{0, 1\}$ and output alphabet $\{Y, N\}$ which produces Y as output if input sequence contains 1010 as a substring otherwise, it produces N as output.
- 5 Convert the following Mealy machine into the equivalent Moore machine.



- 6 Convert following NFA to FA.

