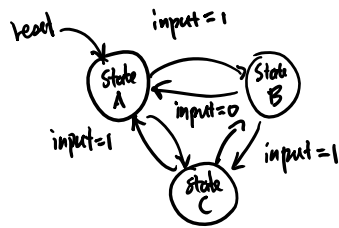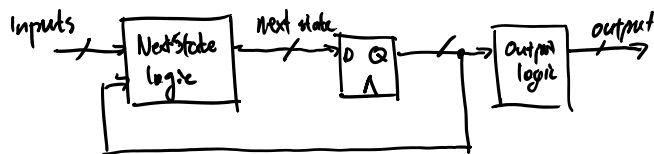# State Machine

January 8, 2018   12:22

State Machine is a sequential circuit and has multiple states

State Diagram is used to visualize and describe the behavior of a state machine

Implementing a State Machine

There are three parts to a state machine:
1. The next-state logic takes in current input and current state and determine what the next state should be
2. The registers in the middle holds the memory of the current state
3. The output logic takes current state and produces an appropriate output