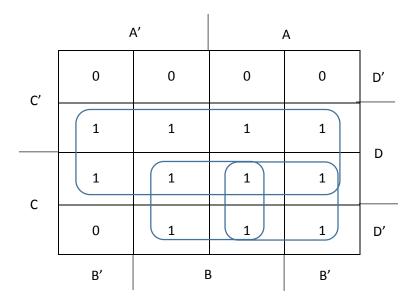
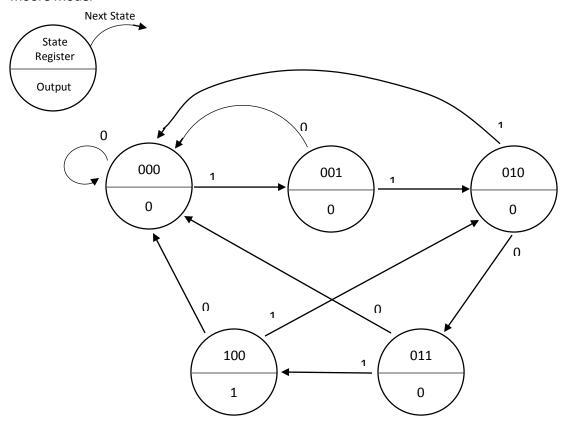
9.1 Truth table

Tracir table				
Α	В	С	D	Output
0	0	0	0	0
0	0	0	1	1
0	0	1	0	0
0	0	1	1	1
0	1	0	0	0
0	1	0	1	1
0	1	1	0	1
0	1	1	1	1
1	0	0	0	0
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1
1	1	0	0	0
1	1	0	1	1
1	1	1	0	1
1	1	1	1	1

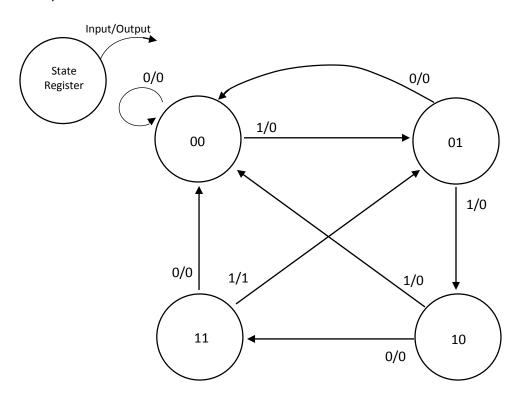


F = D + B\*C + A\*C

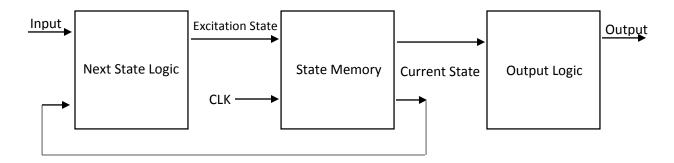
9.2 Moore Model



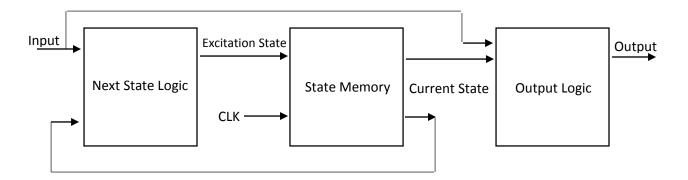
# Mealy Model



## Block Diagram – Moore Model



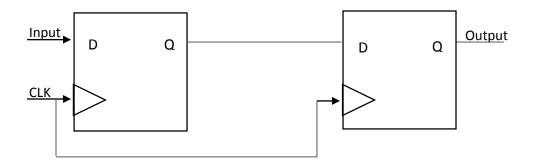
### Block Diagram - Mealy Model



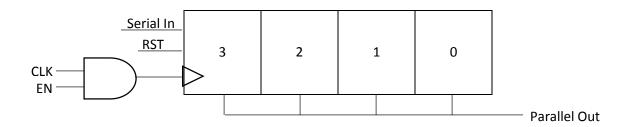
In Mealy Model, current state and current input will affect the output

#### 9.3.1

## 2 Flip-Flop synchronizer



9.3.2 Most Significant Bit First Serial to Parallel Shift Register



9.3.3 Most Significant Bit First Parallel to Serial Shift Register

