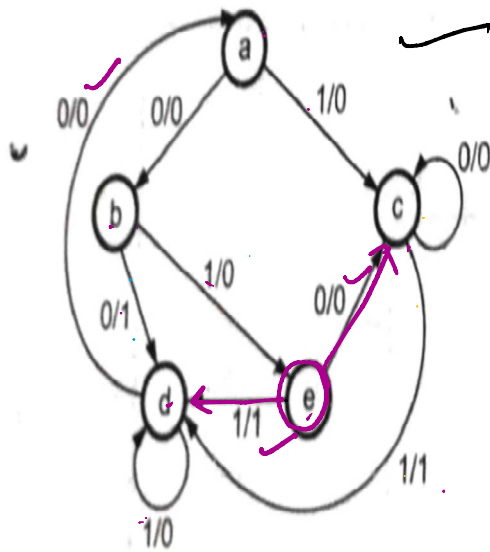


State Reduction

State diagram



State table

Present state	Next state X=0 ✓	Next state X=1	Output X=0	Output X=1
a	b	c	0	0
b	d	c	1	0
c	c ✓	d ✓	0	1
d	a	d	0	0
e	c ✓	d ✓	0	1

state 'c' is equivalent to state 'e' because its next states and o/p's are same
 $c = e$

Present state	Next state X=0	Next state X=1	Output X=0	Output X=1
a	b	c	0	0
b	d	c	1	0
c	c	d	0	1
d	a	d	0	0

Mealy machine

