

$$\frac{B}{S}; w=1$$

$$01 \times -9 \text{ not } 00'$$

$$1 \times 80 \times 7$$

$$1 \times S6 \times 7$$

$$\frac{B}{S}, w = 0$$

$$00 \times \rightarrow 00.50$$

$$00 \times \rightarrow (B')$$

0 ->B

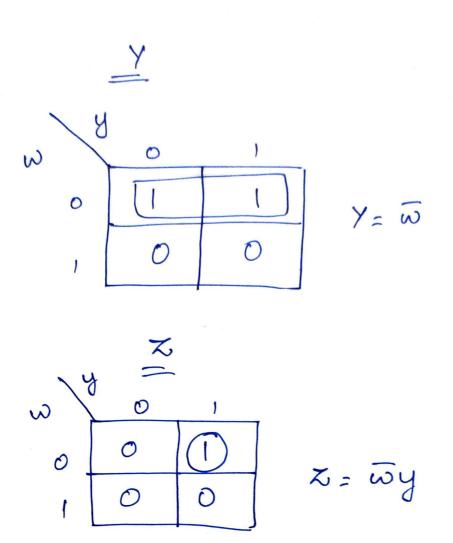
State Table

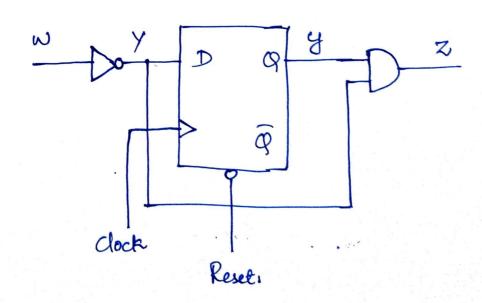
B

Present	Next State		Output Z	
state	W20	W=1	W=0	w=1
A	В	A	0	Ó
B	B	A	1	<b>\$</b> 0

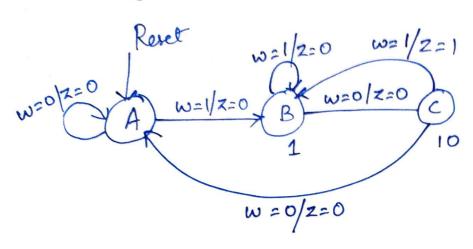
State Assigned Table.

	C .						
-	Present	Next State		Output 2			
	State	W=0	w=1 Y	w=0	W=1		
	0	1	0	0	0		
74	1		0	10.00	0		





Mealy: 101



1 -38

A; W20

0 x-34. B; w=1

XIV-B

C W20

State Table.

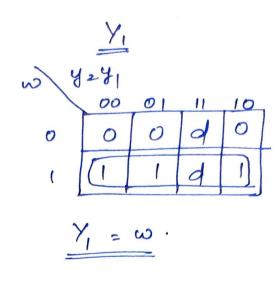
Output 2 Next State Poesent State w=1 w=0 w=1 w=0 0 0 A B A 0 0 B C B A B 0

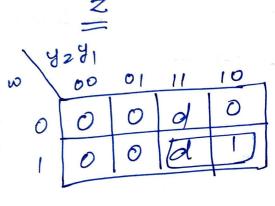
100-34 C; W21 101V-3B

State Assigned Table.

	) + Nest state		Output 2	
Prosent		w=1	W=0	w=1
State y y y 1	w=0 . Y2Y,	Y2 Y,	*	
0201	00	01	0	0
00	10	01	0	0
01	00	01	0	1
		1 1	d	d
	d d	da	O <sub>1</sub>	

AB





D; w=0

1/0 -> 2=)

Reset 
$$w = 1/z = 0$$
 $w = 0/z = 0$ 
 $w = 1/z = 0$ 

$$\frac{D; \omega = 1}{X \otimes X}$$

1-3B

10 -20

101-D

## Home work.

- 1.) Design Sequence detectors (Moose).
  a.) 610, b.) 0110, c.) 1011001
- 2.) Derign sequence detectors (Moore) for the squence 111. Use One hot Encoding.
  - 3.) Design Mealy FSMs for all the cases given in questions 1 and 2.