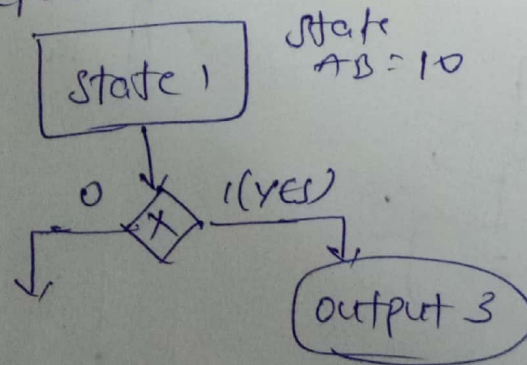
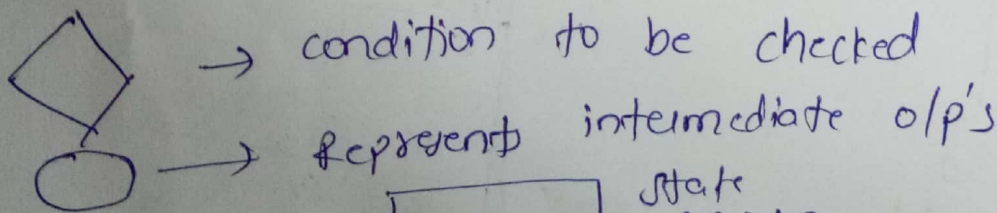
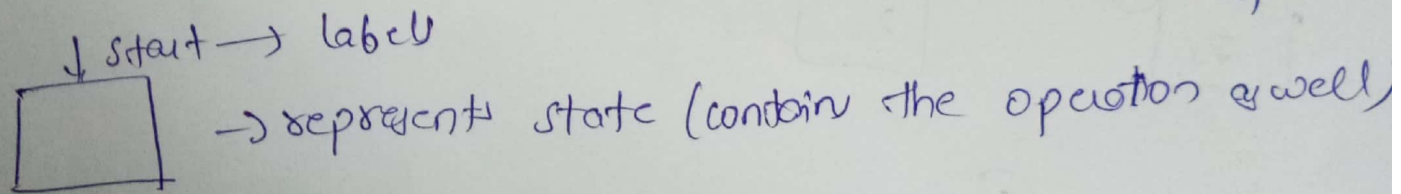
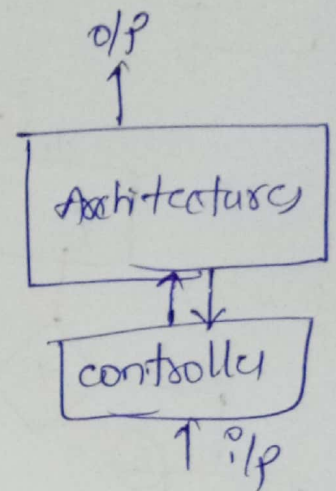


Arithm

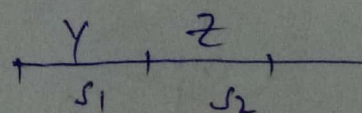
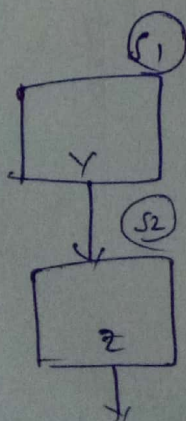
Algorithmic state machine (ASM)

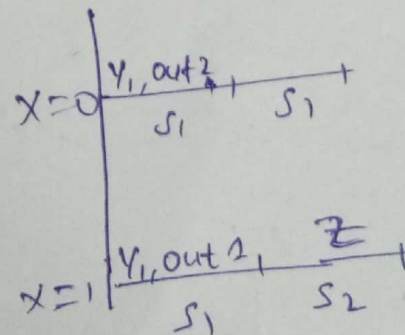
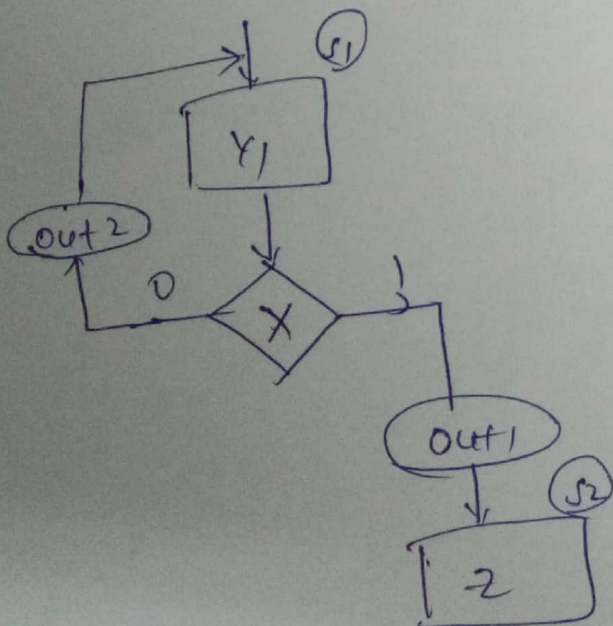
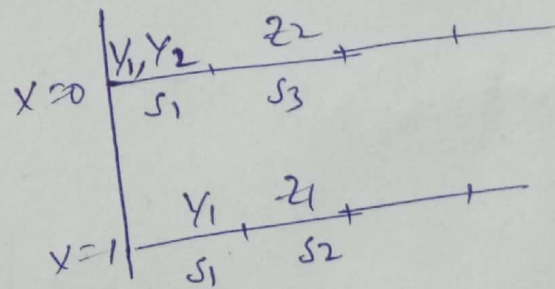
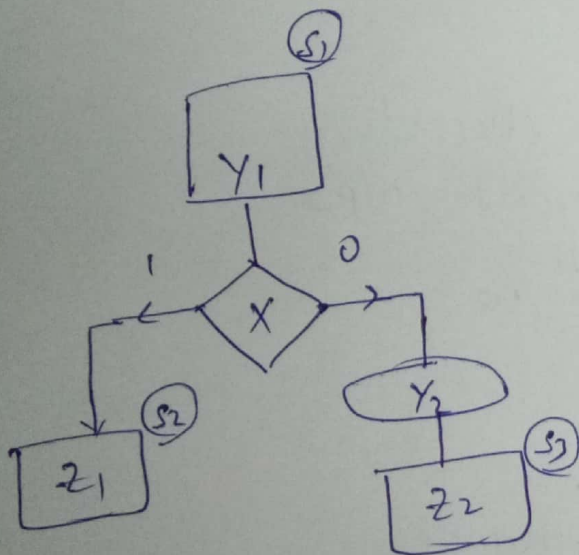
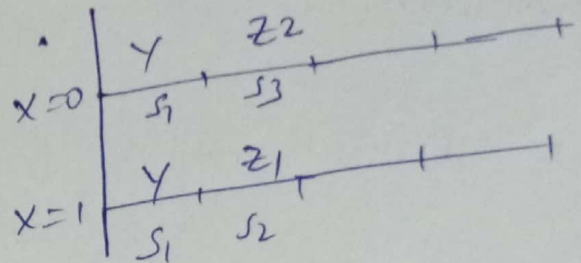
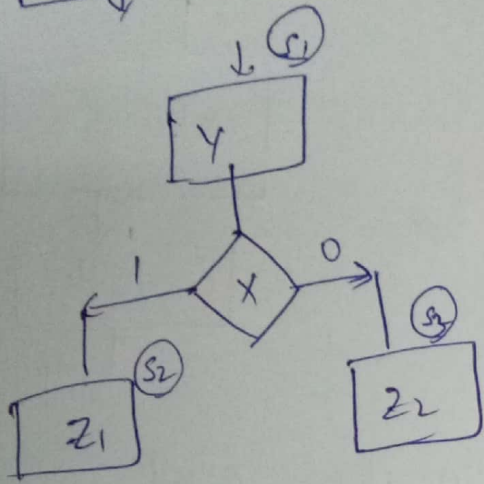
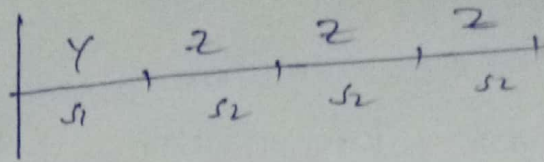
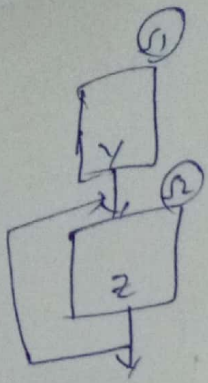
- flow of data and timing related information
- ASM charts contain both flowchart and timing related information



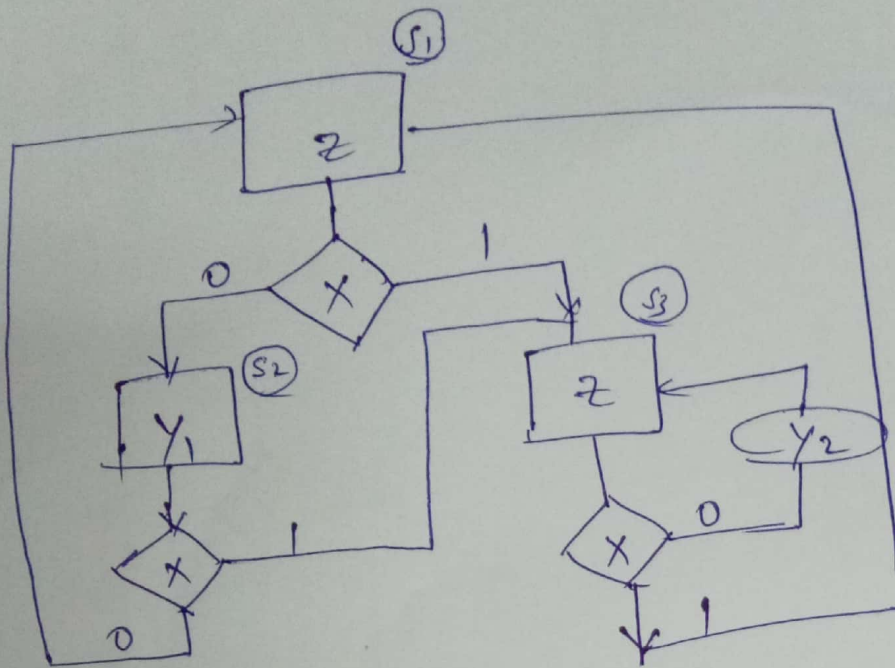
- It remains in a state for one clock period

Eg





- one i/p (x), two o/p's (y, z)



- Traditional method
- mux based method
- One hot method
- ROM - based method

state table

<u>PS</u>		<u>NJ</u>		<u>output</u>
<u>AB</u>		$x=0$ A^+B^+	$x=1$ A^+B^+	
s_1	01	$s_2(10)$	$s_3(11)$	z
s_2	10	$s_1(01)$	$s_3(11)$	y_1
s_3	11	$s_3(11)$	$s_1(01)$	z, y_2