# L-17 Conversion of Mealy Machine to Moore Machine (Using Transition Table)-1

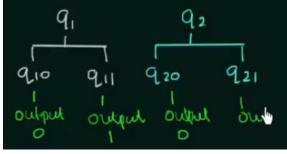
#### Conversion of Mealy Machine to Moore Machine -Examples (Part-3)

#### Using Transition Table

State	а	Ь
→q o	93,0	91,1
91	90,1	93,0
q2	92,1	92,0
93	91,0	90,1

State	a	ь		State	а	Ь	Output
$\rightarrow q$ .	93,0	91,1	_	>90			-
q.	90,1	93,0		-10			
q2	92,1	92,0					
93	91,0	90,1					
$q_{_{1}}$	q	2					
	7						
210 9	11 920	921					
output or	utput out	ul butput					
0	1 D	1					

State	а	Ь
$\rightarrow q$ .	93,0	91,1
q.	90,1	93,0
92	92,1	92,0
93	91,0	90,1



State	α	<u> </u>		State	а	Ь	Output
$\rightarrow q$ .	93,0	91,1	_	>9o			
91	90,1	93,0		790			
92	92,1	92,0					
93	91,0	90,1					
9,	q	2					
2.0		921					
90 9	11 920	921					
output or	etych outp	ut output			l		
0	1 0	1					

State	α	<u> </u>	State	а	Ь	Output
$\rightarrow q$ .	93,0	91,71	<u>→</u> 90	93,0		
q.	90,1	93,0		13,0		
92	92,1	92,0	910			
93	91,0	90,1	211			
			920			
$q_1$	q	2	921			
210 91	1 920	921	93			
ulput or	stang onto	ut british				

State	α	Ь		State	а	Ь	Output
$\rightarrow q$ .	93,0	91,1	_	<b>&gt;</b> 90	93,0	911, 1	
q,	90,1	93,0			15, -	,	
۹ ۱ ۹2	92,1	9,2,0		910			
93	91,0	90,1		211			
,				920			
$q_1$	o	2		921			
210 91	920	921		93			
supput or	the protection						١.,

State	α	b	State	α	Ь	Output
$\rightarrow q$ .	93,0	91,1	<b>→</b> 90	93,0	911, 1	
q.	90,1	93,0			י נווע	
92	92,1	92,0	910	90,1	93,0	
93	q1,0	90,1	911			
$q_1$	q	2	921			
210 21	1 920	921	93			
ulput or	utque outp					

State	α	Ь	State	_ a	Ь	Outp
$\rightarrow q$ .	93,0	91,1	<u>→</u> 90	93,0	911, 1	
q.	90,1	93,0			י נווע	
92	92,1	92,0	910	90,1	93,0	
93	91,0	90,1	911	90, 1	93,0	
			920			
$q_1$	Q	2	921			
200 21	920	921	9,3			
1 1	type buy	jul brutput				

Convert the given Mealy Machine to its equivalent Moore Machine

b

$\rightarrow q$ .	93,0	90,1
q,	90,1	93,0
92	92,1	92,0
93	91,0	90,1
$q_1$	(	92
		1
210 91	920	921
ulput or	itgut ou	but bulgut
0	T	1

State

State	α	Ь	Output
<b>→</b> 90	93,0	911, 1	
910	90,1	93,0	
911	90, 1	93,0	
920	921, 1	920,0	
921			
93			

State	а	<u> </u>
$\rightarrow q$ .	93,0	91,1
q,	90,1	93,0
92	92,1	92,0
93	91,0	90,1
	4	
$q_1$		92
		-
210 91	1 920	921
sulput or	etypul Ol	apul output
0	1	D 1

State	α	Ь	Output
<b>→</b> 90	93,0	911, 1	
90	90,1	93,0	
211	90, 1	93,0	
920	921, 1	920,0	
921	921, 1	920,0	
93			

	State	а	<u> </u>	
	→q o	93,0	90,1	
	91	90,1	93,0	
	<b>q</b> 2	92,1	9,2,0	
	93	91,0	90,1	
	$q_1$		Q2	
(				
2	10 91	920	921	
u	tput or	etget 0	word bulgal	
1	0	1	D 1	

State	α	Ь	Output
<b>→</b> 90	93,0	911, 1	
910	90,1	93,0	
911	90, 1	93,0	
920	921, 1	920,0	
921	921, 1	920,0	
93	910,0	90,1	

State	α	<u>D</u>
$\rightarrow q$ .	93,0	91,1
q,	90,1	93,0
92	92,1	92,0
93	91,0	90,1
$q_1$		92
		1
210 91	1 920	921
ulput or	etged of	about british
0	1	1

State	α	Ь	Output
<b>→</b> 90	93,0	911, 1	I
910	90,1	93,0	
211	90, 1	93,0	
920	921, 1	920,0	
921	921, 1	920,0	
93	910,0	90,1	

State	α	<u>D</u>
$\rightarrow q$ .	93,0	91,1
q,	90,1	93,0
92	92,1	92,0
93	91,0	90,1
$q_1$		92
		1
210 91	1 920	921
ulput or	etged of	about british
0	1	1

State	α	Ь	Output
<b>→</b> 90	93,0	911, 1	I
910	90,1	93,0	
211	90, 1	93,0	
920	921, 1	920,0	
921	921, 1	920,0	
93	910,0	90,1	

Convert the given Mealy Machine to its equivalent Moore Machine

b

$\rightarrow q$ .	93,0	91,1
q,	90,1	93,0
92	92,1	92,0
93	91,0	90,1
$q_1$		92
210 91	1 920	921
ulput or	stand ou	tout bulget
0	1 0	1

State |

State	а	Ь	Output
<b>→</b> 90	93,0	911, 1	1
900	90,1	93,0	0
911	90, 1	93,0	1
920	921, 1	920,0	0
921	921, 1	920,0	
93	910,0	90,1	

State	u	<u> </u>
$\rightarrow q$ .	93,0	91,1
q.	90,1	93,0
q2	92,1	92,0
93	91,0	90,1
,		
$q_1$		92
		1
210 21	1 920	921
sulput or	etged ou	tout butput
0	1, 5	1

State	α	Ь	Output
>90	93,0	911, 1	1
910	90,1	93,0	0
211	90, 1	93,0	1
920	921, 1	920,0	0
921	921, 1	920,0	ı
93	910,0	90,1	q

Convert the given Mealy Machine to its equivalent Moore Machine

Jiule	<u>~</u>	
$\rightarrow q$ .	93,0	91,1
q i	90,1	93,0
92	92,1	9,2,0
93	91,0	90,1
$q_1$	(	92
		1
210 91	1 920	921
ulput or	etget ou	tout output
	1	1

State I

State	α	Ь	Output
<b>→</b> 90	93	911	1
910	90	93	0
211	90	93	1
920	921	920	0
921	921	920	1
93	910	q.	0

State	a	b 👆	Works	State	а	Ь	Output
→q o	93,0	91,1		→ 90	93	911	1
q,	90,1	93,0					0
92	92,1	92,0		910	90	93	
93	91,0	90,1		211	90	93	1
	1			920	921	920	0
9, 92				921	921	920	1
910 911 920 921				93	910	9.	0
output output output							

#### • Questions????