Fransducers (Finite)

Mealy & Moore M/c:-

DFA with some ofp. There is no final state in these

$$(8 \text{ QXE} \rightarrow \text{Q})$$
 Mealy & Moore M/e

Moore Me -

0/p depends upon current state &

O/p depends upon current state are mot equivalent as then o

Mealy M/c:- a rot smas and tompour to from alo

$$\begin{cases} 8(q_0,a) = q_1 \\ \Delta(q_0,a) = 01 \end{cases}$$

ast, we can ce
$$O/p = 01$$
.

alepends upon $a_0, 2a$

I/P:- aabba - 0110001

they are that with some off. There is no thind forte in thisse EVERM (PR-SXP)

with state only

Į.	a	Ь	0/P A90
$\rightarrow a_{0}$	91	gr.z	()
^G b J	(av,	12.2.	13,9)M
0 0 ×2	0 2	491	100 €

I/p:- aabba 6 1 2 quaran moon spurch d/0

I/p:- baaba

Meany: Jaxan O/P :- 11 EEE 00 = 1100

(0)12 depends upon current state)

NOTE:- Mealy & Moore are not equivalent as there O/p may or may not be same for a given I/p .

Ky C. Droots.

Mealy and Moore are interconvertible.

A Mealy Mic of Mstate, Noutput then when we convert it into Moore M/e, how many satates (atmost 10 = 910 are there. . 420

1 210 State 1 V olephinds upon oxo, & z M State, N-0/P Mealy Me => (Moore MIC. < mm+1

On 1 000

9. M-state, and N	-output M	100re N/c ruhe	in converted
to Mealy M/c.	How many	states (atm	nost) will be
three in Mealy	MIC. OV.	01 (3)	Bey Pourty Sto
M-State, N-9/P Moo	ve M/c =	Mealy MIC	< m states
, (3e) o		, ,	
	0 11000.	0 Mala 2	
g Standard functions	m Meday	8-1-100re	9.117
(101) - (010) - 1	100	olan y	de,
1. I's compliment	LE L	01(11)	rehid
11.1) - 2 - 4	1-10	0-15	
2. 2's compliment			
3. Binary Adder (Full)			
	010	01/	7 may be
4. Incremented by 1	11/1	110	a 1 pd
5. Change the sign bit	EVEN		
change the sign bit	7		
6. Integer Division teste	~ [900011	floodi	
090	11	11+	
7. Logical funch		()C	
00	0/3		
The second	N 62	No Mana	M. Park
Mealy M/c	(4)x	oli Moore	ifile
	1	- 1	0
5 unt ()1/0	01/1	0	Tax a
mplim chi (90)	Leg .	-(90) -	
1.			

