Varun Khadayate A Ssignmen

a. FSM

I = {(0,0), (0,1), (1,0), (1,1)}

5= { Sum, Carry & S= [Carry, No Carry ]

	MAT I	×S->0	
IS	Carry	No Carry	
(0,0)	!	0	
(0,1)	. 0	(	
(1,0)	0	2	
C1,12	. 1	D	

STF: IXS > S

IN Carry NoCarry

CO, O) NoCarry

CO, O) Garry

CO, O) Gar

(0,0)->0 (1,1)->0 (0,1)->0 -- (0,0)->1 (0,0)->1 (0,1)->0 (0,1)->1 (1,0)->1 (1,1)->1

1

T.M	
Current State No Corry Con	iy
No Carry (0,1)/1V(0,0)/0V(1,0)/1 (1,1)	0/0
No Carry (0,1)/1V(0,0)/0V(1,0)/1 (1,1) Carry (0,0)/1 (0,0)/0V(	1,0000CLU/1
5. Moore Machine	
(0,0)	
$(1,1) \qquad (1,0)$	
- (Vo/0) (O,1)	
(0,1) (0,1) (0,1)	
ΣΙ 2 2 1 2 1 1	10/11/
No a d	01/10
Vo - 10 09	21/10
y corry for	0 11
1	0 4
	0 1
Co I leave to	
(0,0)-0-(1,0)-)(0,1)-)1	
1	16(M) 50-(10)
The state of the s	19/19/
(0,0)-)	

Peipe No

2/2	00	01	10	11	17
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	Đ	1	1	111	
			1		-