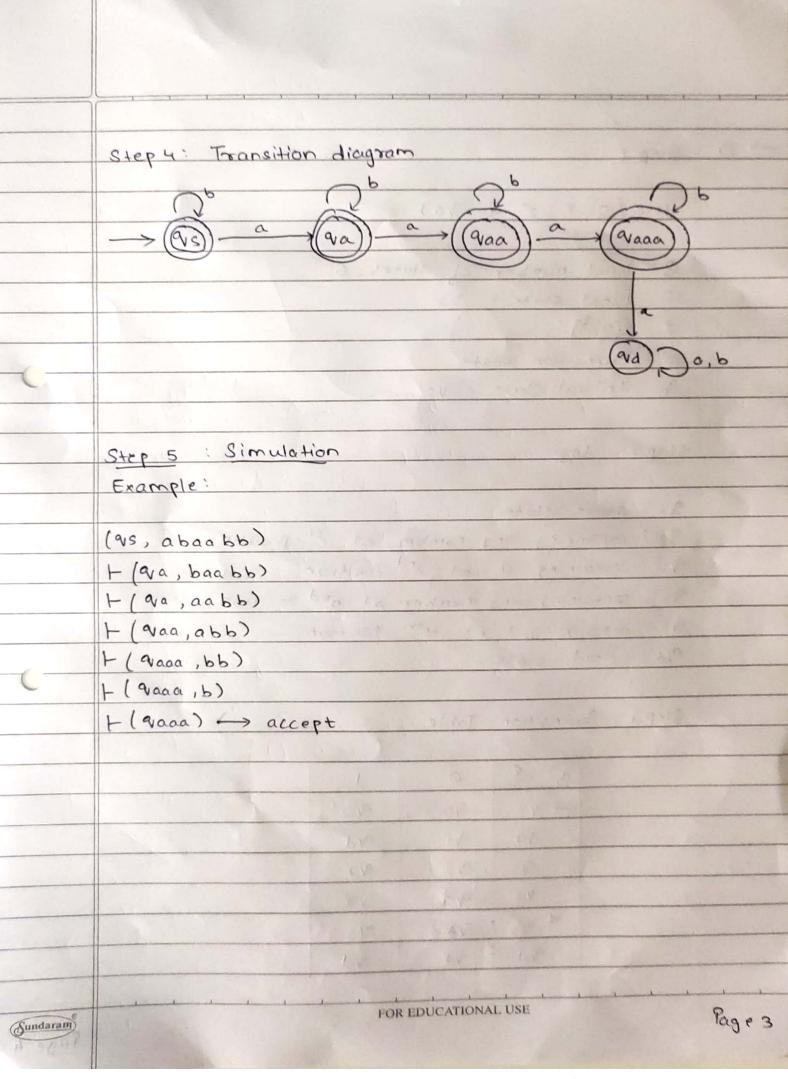
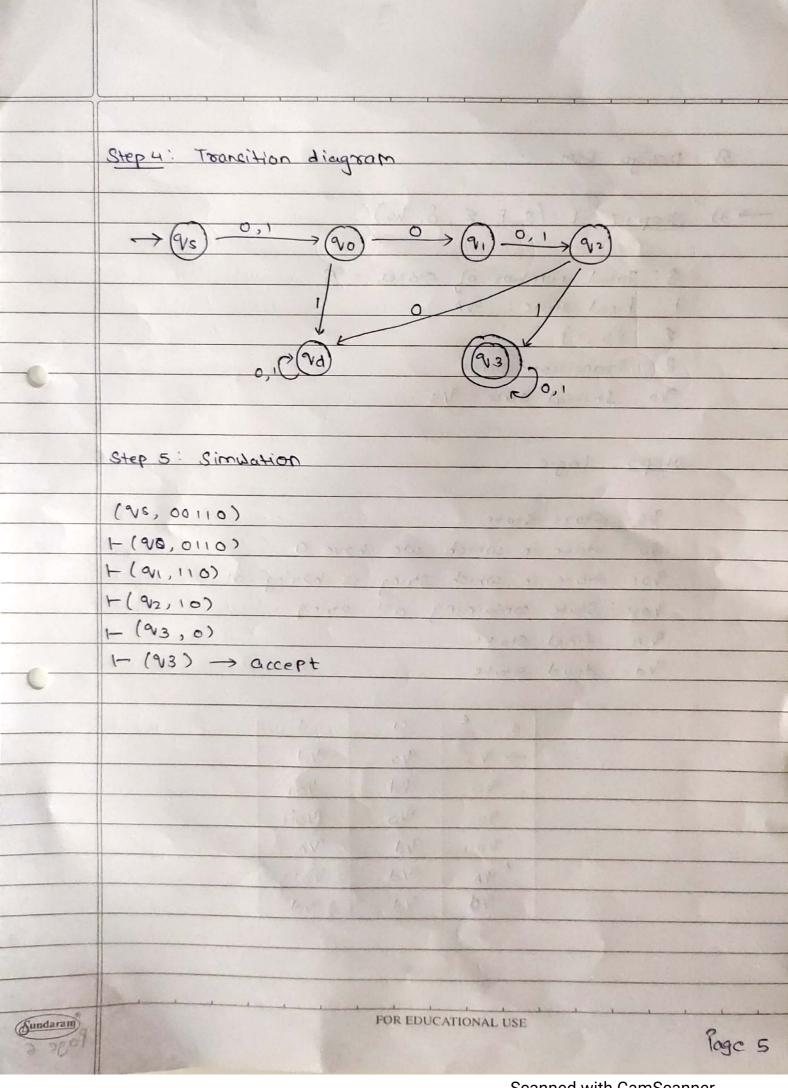
	Name: Ayush Jain SAPJD: 60004200132 Div: B
22/03/22	FLAT
	Tutorial. 1
17	Design a FSM for string which accepts set of all
	Strings on &= & a, b} with no more than 3 a's
2>	FSM
×/	Design a BRA that accepts the language  L= & W E (0,1)*   second symbol is 0 and fourth symbol
-	L= g W E (0,1)   second symbol is 0 and fourth symbol is 1]
	PLANT TOLENOT I
3>	Design a FSM that accepts the language
	1 = \$ (01) 125 /1,5 713
4)	Design a FSM that accepts the language
	1- fabwba / w & fa, b3* 3
	B. C. Cardolina P. C.
5>	write R.E for the set of strings of 0's and is
	not containing 101 as a substring.
6>	write R. E for the language
	L= f on bm   n 2 4, m 2 3 }
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Sundaram	FOR EDUCATIONAL USE Page 1
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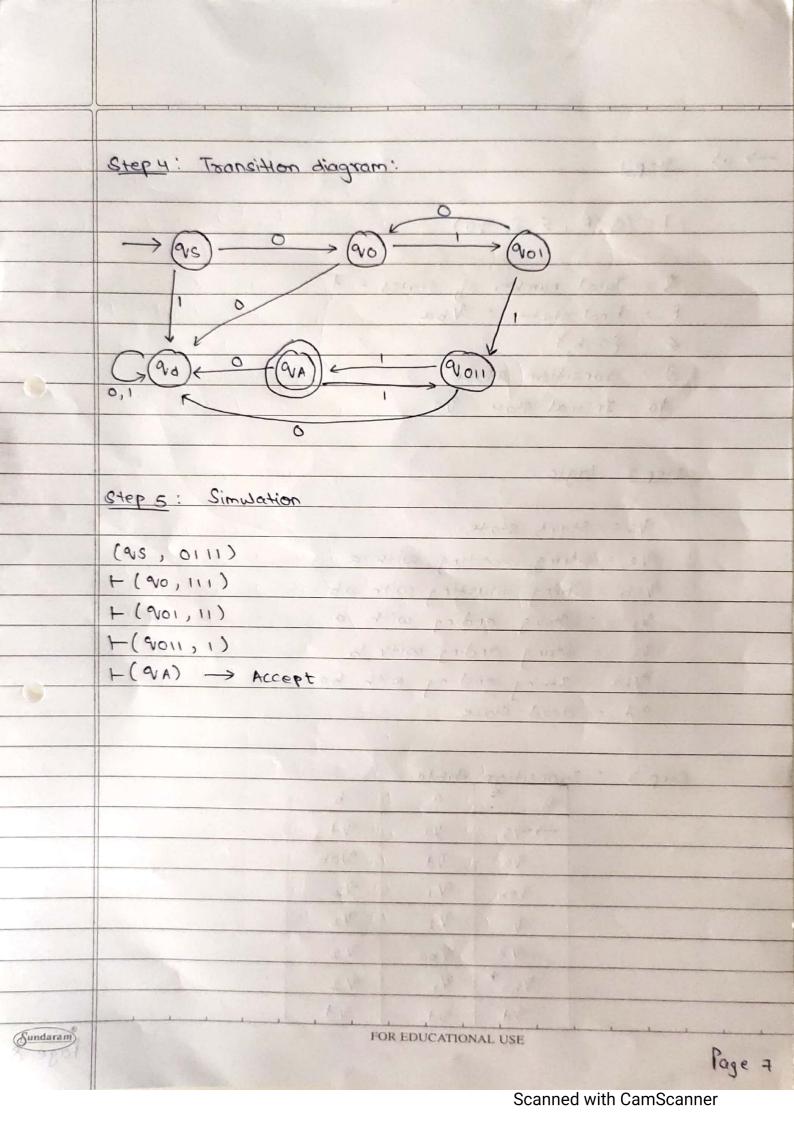
1 / handle to the second							
Solutions:							
-> 1) Step 1:	7						
X= (B, F, Z, 8, 203							
g: Total number of etates = 5	Co						
F: Final state = 95, 900, 9000, 9000, 9000							
£: &a,b3							
8: Transition state							
90: Initial state = 91s							
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
Step 2: Logic							
DOCEMBER SERVICE LOVE TO SEE SPECE							
95: Storet State							
era: String containing 1 a							
Qua: String containing 2 a	7						
Vaca: String containing 3 a							
96: Stoing containing 16							
9d: dead state							
Step 3: Transition Table							
gé a b							
→9s* va vs							
va* vaa va							
voa voaa vaa	ASSES						
qua							
ad ad ad							
Sundaram FOR EDUCATIONAL USE							
To the state of th	age 2						



→ 2>	Step 1:						
	x = (Q, F, Z, S, 90)						
	((overly)) - 3-((over)) - 3-((over))						
	8: Total number of states: 6						
	F: Final state = 913						
	£ = {(0, 1)} = }						
3	8: Transition state						
	90: Initial State = 915						
	Step 2: Logic						
	9s: Start State						
	90: containing any number at 1st position.  91: containing 0 at 2nd position.						
	912: containing any number at 3rd position.  913: containing 1 at 4th position.						
	918: dead state						
	Step 3: Transition Table:						
	3 2 0 1						
	→ 9s 90 90						
	90 91 94						
	91 92 92						
	92 9d 93						
	* 93 943 93						
	90 90 90						
Sundaram	FOR EDUCATIONAL USE						
	Page 4						



	1 1 1 1							
85	Draign Fem							
→ .3)	3) Step1: L=(B,F, E, 8, Vo)							
	B! Total nur	nher of	states:	- 6				
	F: Final stor							
	2 80,13							
	8: Transitio	n state						
	No: Initial	2616 = N	s					
	stebs: rodic	atebs: rodic						
	9s: Stort State							
	90 : State in which we have 0							
	01							
	9011: State containing oil string							
	NA - final state							
	Nd- dead state							
		2	0	1				
		3 × 9	90	ava .				
		90	94	901				
		901	90	9011				
		9011	94	°VA				
and the second second	* 9A 9Vd 9Vd 1							
100000000000000000000000000000000000000								
and the Mining are such								
(Landaracis)		- Province Assessment	FOR EDUC	CATIONAL USE		Page 6		



	1 1 1	1	I I	1 1		I		
$\rightarrow$ 4 $\rangle$	Step 1:			mapped a	my wat a part			
	L= (0, F,	£ , 8, 90	(0)	7				
		(41)						
-	B = Total	number o	state de	r = 4				
	F = Final s		Vba					
	£ = £9,63			1	1 1			
	8 = Transit			3 3 (1)	/) ( ->(av) ( )			
	Po = Initio	el state =	= Vs					
				0				
	Step 2: logi	c			Deliver /			
		The state of the s						
	Vs = Sta							
	Qa = Stri				(1110 4 30)			
	Pab = Ste	9ab = String Storting with ab						
	91 = St	string en	iding wi	ith a	(11,100) 4			
	92 = 54	steing end	ding wit	H 6	( cust ) 1			
	96a = S	storing en	ding co	ith ba	1.14 ( (A) ) 7			
	9d = d							
	Step 3 : To	mitien	tople					
		8 2	0	Ь				
		→ qs	9a	94				
		Qa .	9/8	Nab				
		906	91	92				
		91	91	92		THE STATE OF		
		ay 2	960	92				
		Vbc*	9,	V2	The same of the sa			
		Qa	va .	1 24		BASE SILE		
Sundaram				EDUCATIONAL U	USE	Page 8		

