9	Tut	oxial = 1	
	Krithikha	orial - 4 Balamurug	ign.
	Construct a alphabet &	NFA to = {0,13	accept estrings o
-01	The 3rd,	symbol fro	m the Fight eno
7		0,1 B -> E	
Ь.	The first and	So,1 digit	are same.
	$A) \xrightarrow{\circ} ($	B) 0 (E)	1001
_c.	Start with o	I and e	
	$\rightarrow (A) \xrightarrow{\circ} (B)$	1 > (c) 1	→D 0 (E)
_d.	Ending with	11.0	
<i>-</i>	0 as one of	(C)>	
	string Joi.	last three	character in 1
	A)	(B) 0,1 > (C	

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2. Design a NFA to accept strongs ovel alphabet $\Sigma = \{a,b\}$ ending with a ba.					
Convert NFA to DFA					
$\xrightarrow{A} \xrightarrow{a \to B} \xrightarrow{b \to C} \xrightarrow{a \to D}$					
NFA TO DFA DFA #					
a b A a b					
A AB AB AC B D C ABD A					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
D Ø Ø					
Oh o a					
$\frac{1}{(ABD)}$					
b b					
→ abaaba					
A > AB > AC -> ABD > AB -> A C-> ABD					
3. let M= 5 Lq, 1,92,933, 80,13, 89,3.8933) is HANFA where 8 is given as					
MANFA where & is given as					
$8(q_1,0) = \{q_2,q_3\}$					
S(a, 1) = Sa, 3					
8 (9210) - 291,7929					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					
8 (93,1) = 29,7923					

NFA DO,	
$\rightarrow 9$	· (0) 0
1/0	→ 1010 → 111000 V
3	> 111101 x
NFA 0 1	
9,2 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
93 92 = 591,933	
DFA O I	
9293 9,92 9,92	
9,9/2 9,9/2 9,9/2.	1010
9,9293 9,9293 9,92	11101 x
$\longrightarrow \stackrel{\circ}{q_1} \stackrel{\circ}{\circ} \stackrel{\circ}{(q_1q_3)} \stackrel{\circ}{\circ} \stackrel{\circ}{\circ}$	91920 (919293)
4. Constauct the transition di transition table for NFA. NFA to equialent D	agram from given Envert a
	· ·

