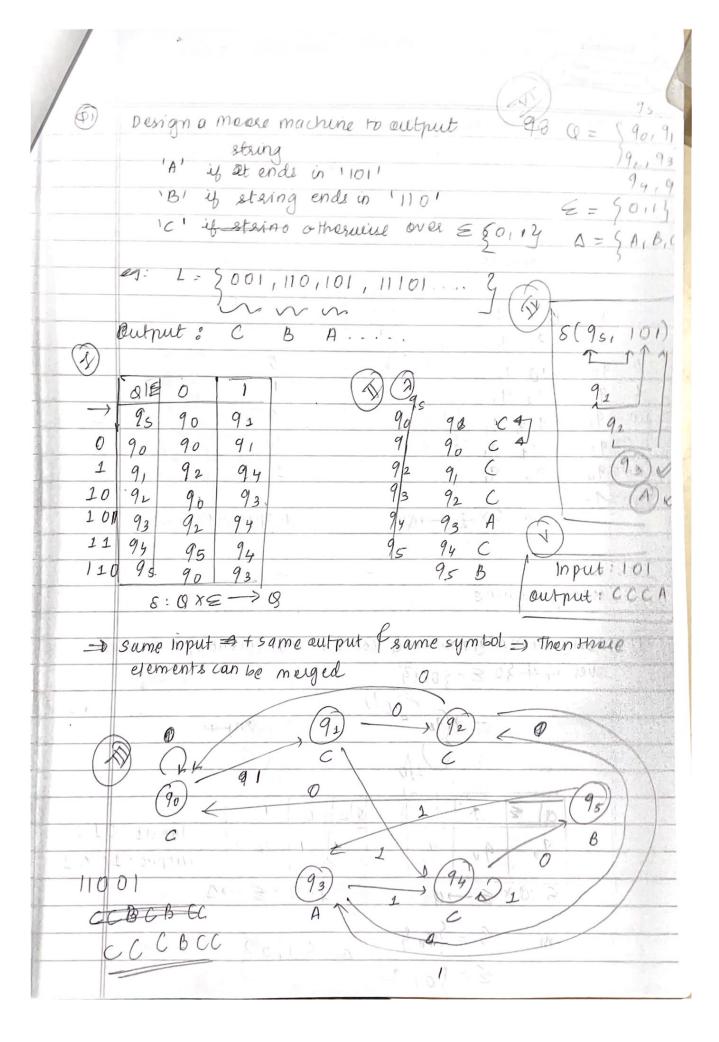
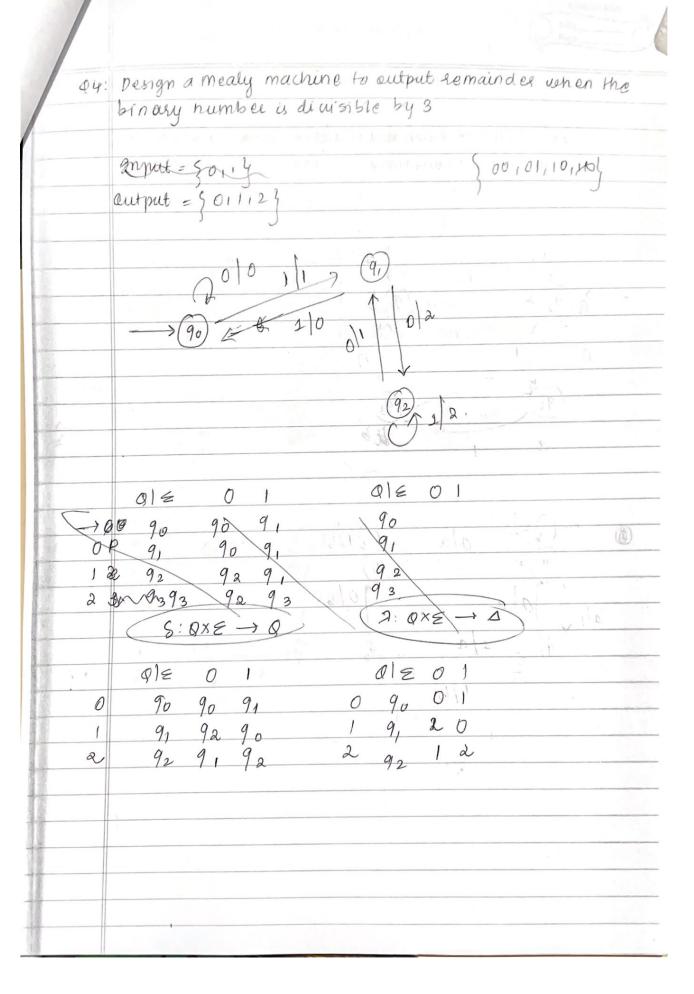
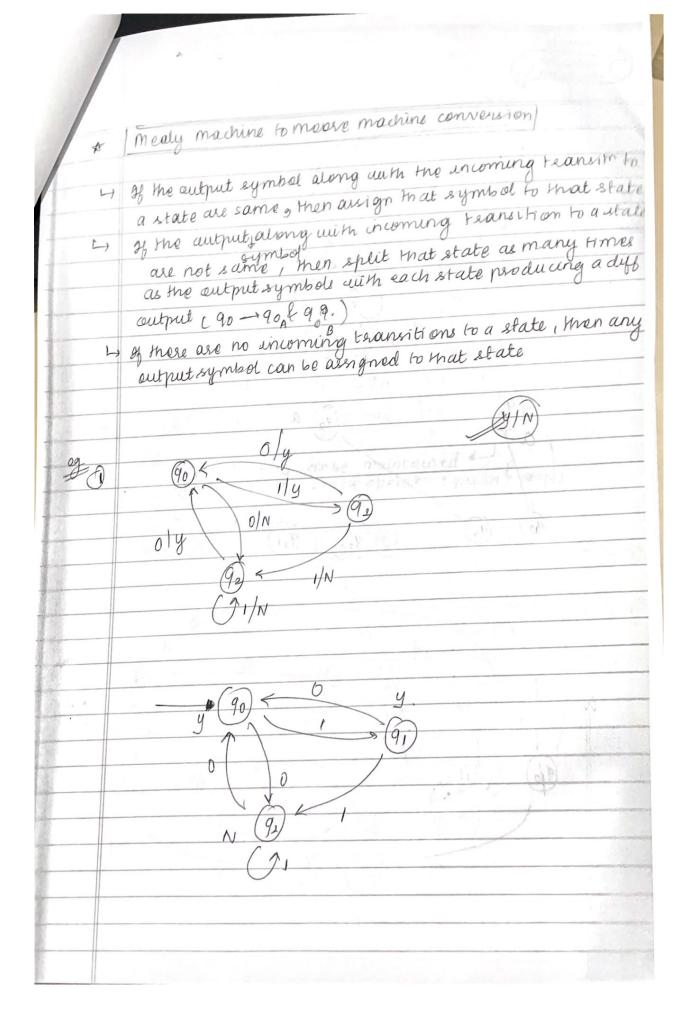
19/00/2	* NFA + DFA : M. (O, E, S, 90,74)
+	Emita Automata : Mill Mealey Machine & Moore Machin
	- There is output but no final state
A	Marie Machine (autrut length one more than input)
	1) It is a Finite Automata with with no out put f it produces
	output sequence for given input sequence.
	Light morre machine, output symbol is associated with each
	state.
12	$M = (0, \leq, \Delta, \delta, \lambda, 90)$
	9 = Finite no. of states : 3 90,9,924
	≥ = griput symbol 5 a, b g = output symbol 5 a, B, C 3
18	$\Delta = \text{output symbol} \qquad \qquad$
1 (mapr	$\delta = 0 \times 4 \leq \rightarrow 0 \text{ (transition)}$
o fu	ning $\lambda = 0 \rightarrow \lambda$ (state gives output)
3	90 - Initial state
00.1	$Qab GOB S:= OXE \rightarrow Q$
eg: Ly	$ \begin{array}{c c} \hline 90 & a \\ \hline A \\ b \end{array} $
-1	A 1 b () b () E a b
	90 90 91
	C 9, 9, 92
	mobre machine 92 91 90
	Manning Guneth: 2: Transim table
	Mapping fundr: 7: gost
	9, 3
	92:6
	12
	output symbol associated with state, so print somethin
18	Input: aba (a(n))
	Output AABB ((n+1))
	Initial : 9080 AA
	, -0

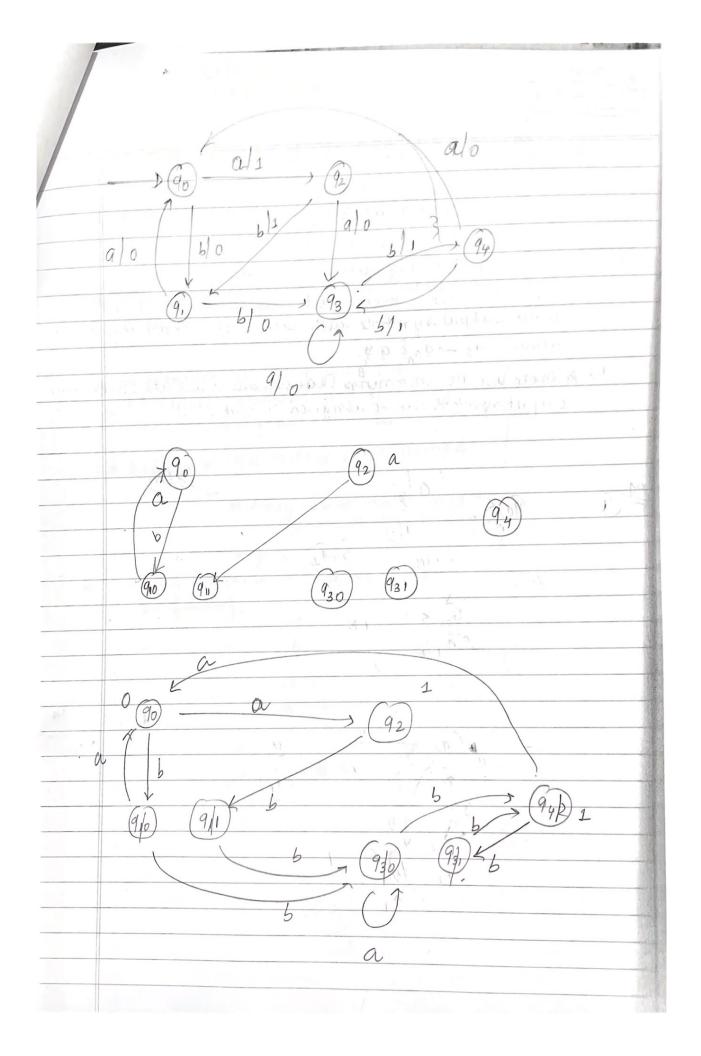
Mealy machine (output length equal to input length) It is a finite automata with no final state & it produces output sequence for the guien input symbol. In mealy machine, output is associated to with each teansition M = (0, 5, 0, 8, 2, 90) :- finite no. of states = I/P symbol a = O/P symbol = QX Z -> Q malination of the = QXE -> A 90 = Initial state 0/2 als 91 90 9, 92 91 12 6: 0x 2 -> 9 A: 9x & = 1 90 on 0 -> 90 Input which is a output:) aca which is C = 90 9, on 0-gives



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	<u>6.</u>	W:	6 =	- 30	9	Δ	= {	1,0	2	1 1 1 1		<u> </u>







- Finite Automata : Final stale - (NIA + DFA) Ly Nonfinite automata: med Final state x. 08/10/22 Rifferentiate between DFAFNFA (5) L, DFA count have e transitions NFA: can have & transim chample induste A Rifference bet mealy & moore machine / (5) L) nfi. Lin. L) freen A laisperence bet FA & pus PDA FA: Finite Automata = input = symbol more ahead PDA: Pushed Down Automata o Deawback: No history is maintained History can be maintained 4 using stack operam (push & pop) Design FA yes an bn where n7/1 Q1. 7-50163 or 8 ab Mas nabb ala.a.

