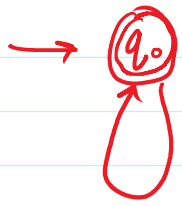
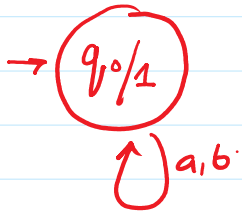
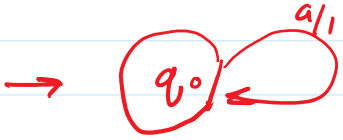
Lecture 16 :-





Moore.



Mealy.

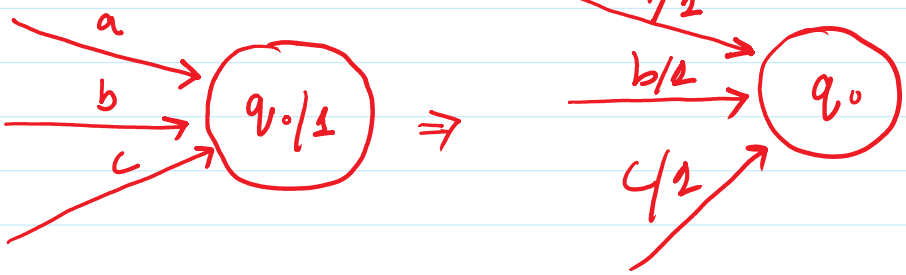
Moore = Mealy.

Definition: Two Machines are said to be equivalent machine if for given Inputs they always produce the same Output.

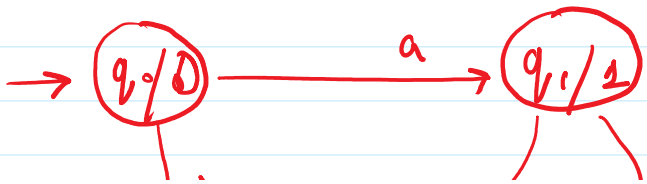
for H Moore machine ∃ a Corresponding Mealy machine.

Note.
- Regex
- DFA
- TG
- NFA
- TT
- Moore
- Mealy

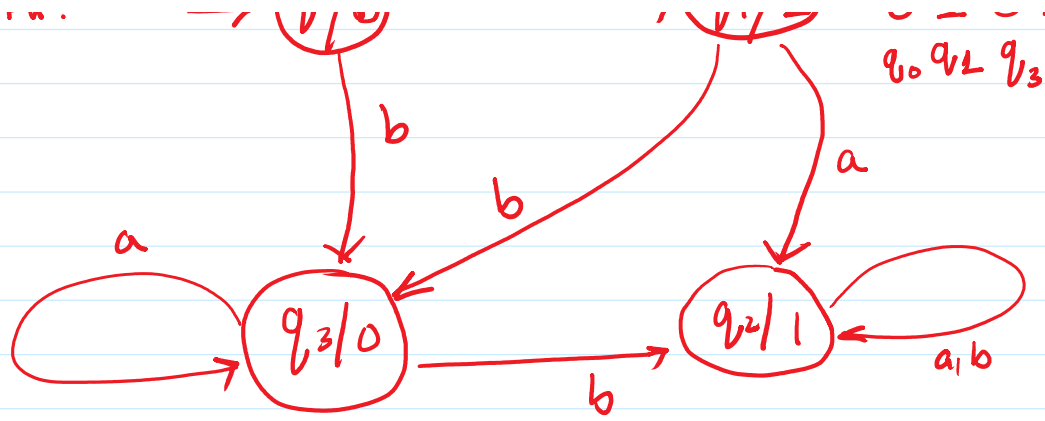
1- Conversion from Moore to Mealy

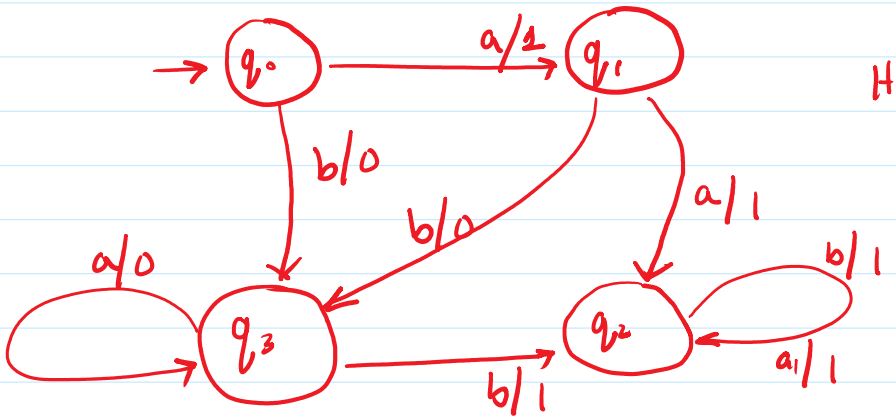


Ex :-



a	b	b	a	b	b	b	a
0	1	0	1	1	1	1	1
q_0	q_1	q_3	q_2	q_2	q_2	q_2	- - -

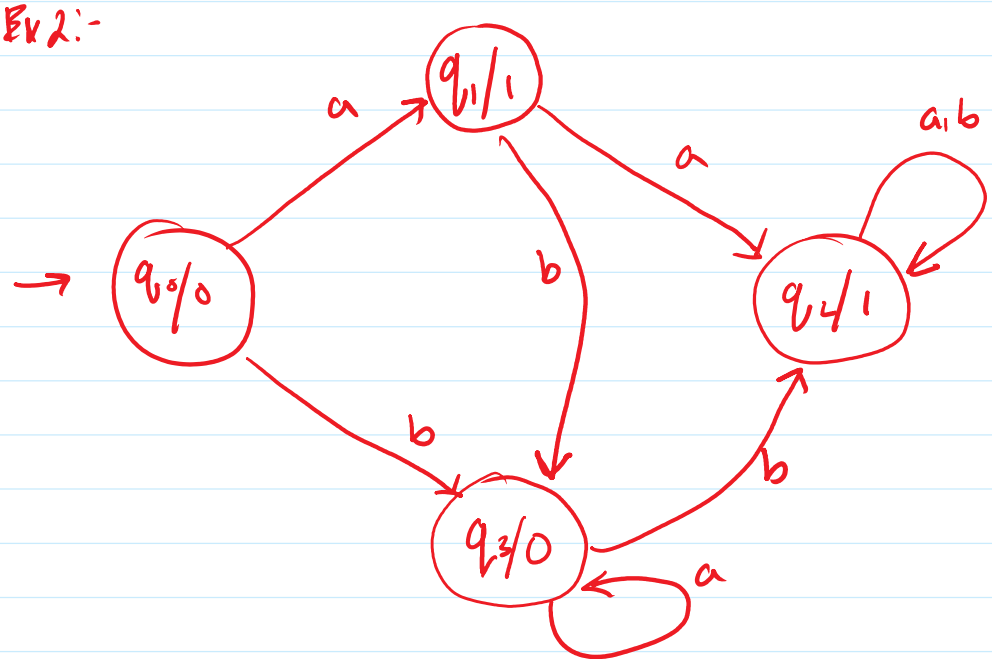


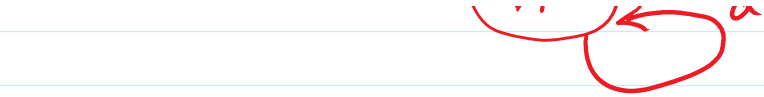


HW.
TT.

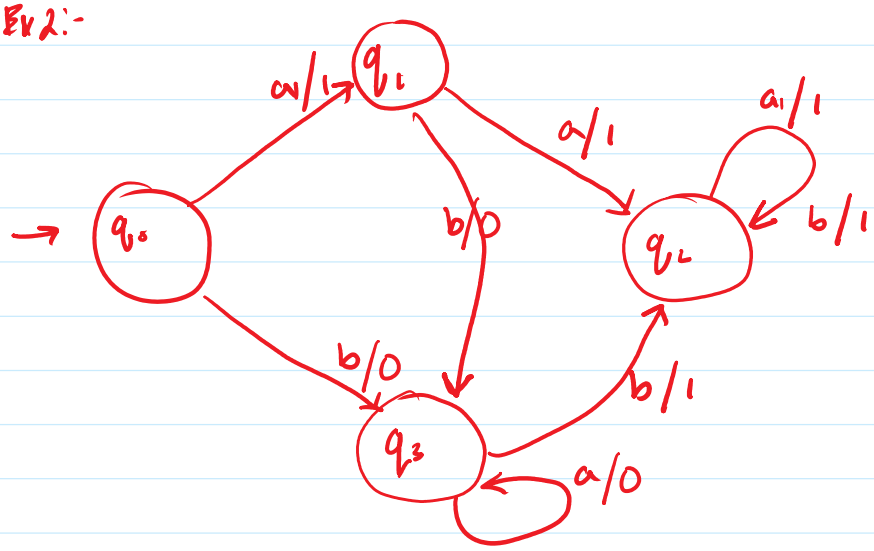
X	a	b	b	a	b	b	b	a
0	1	0	1	1	1	1	1	1
q_0	q_1	q_3	q_2	q_2	q_2	-	-	-
X	1	0	1	1	1	1	1	1

Ex 2:-

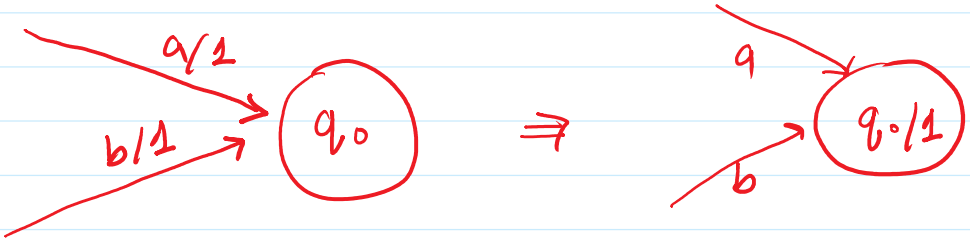




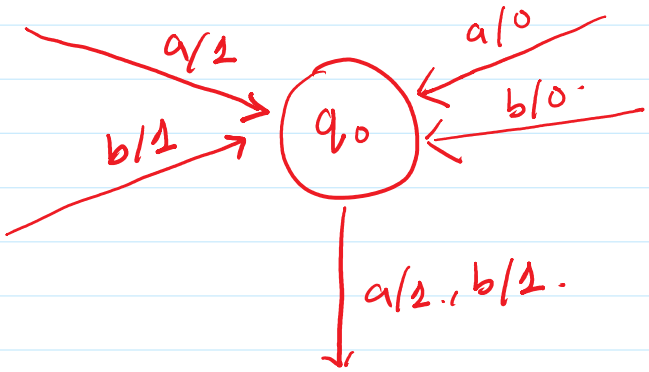
Ex 2:-

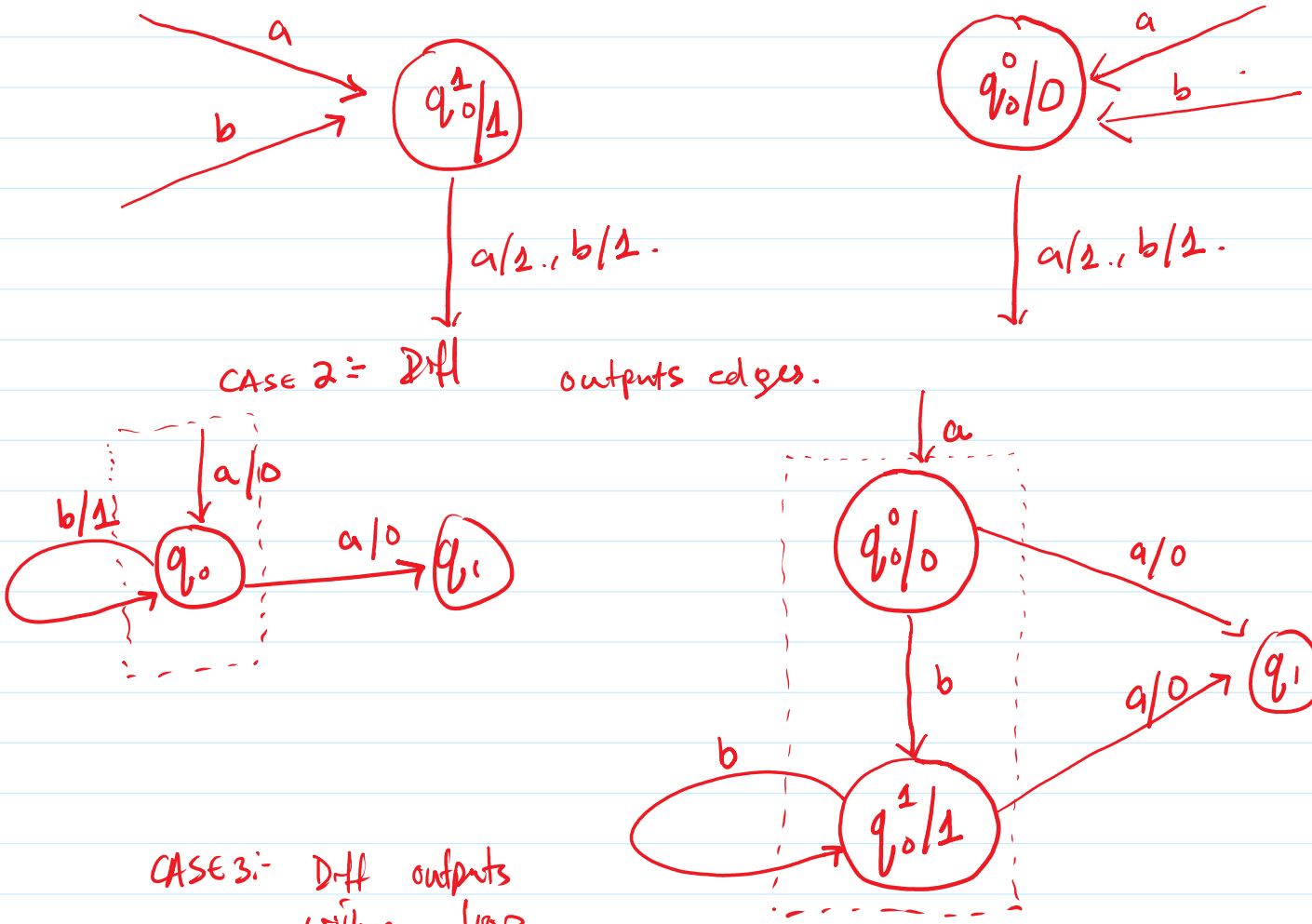


Conversion from Mealy to Moore.



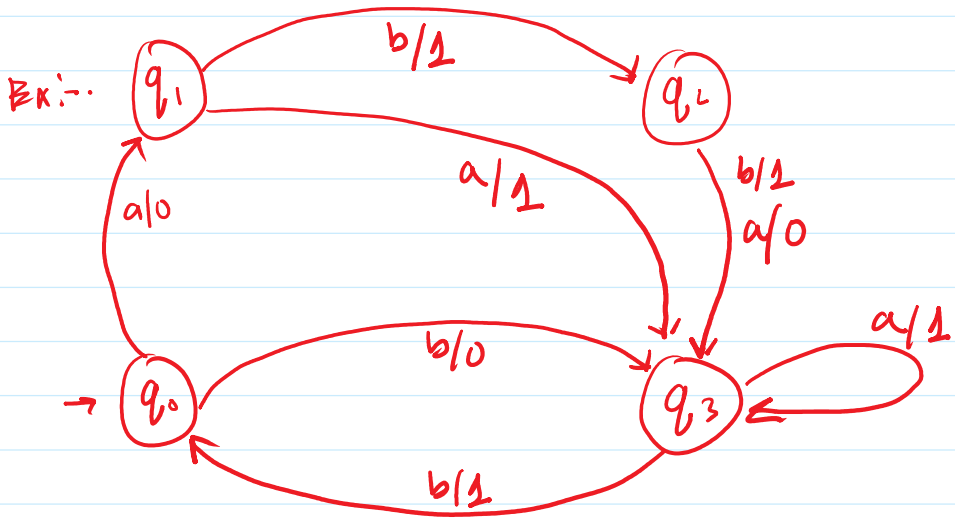
CASE 1:- Same output edges.

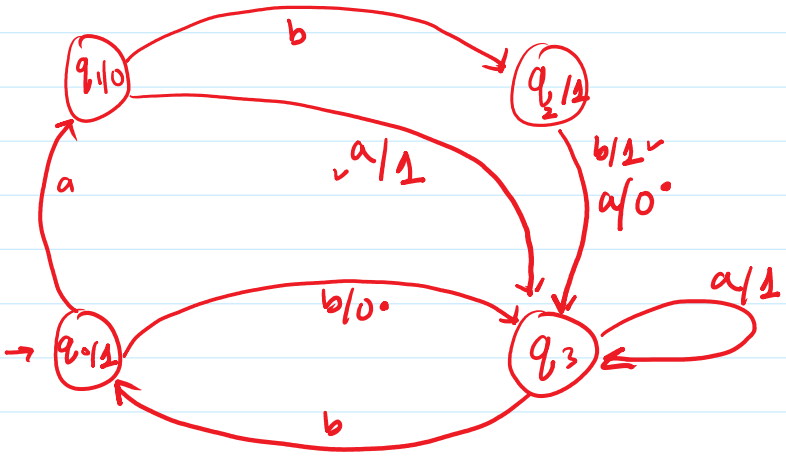


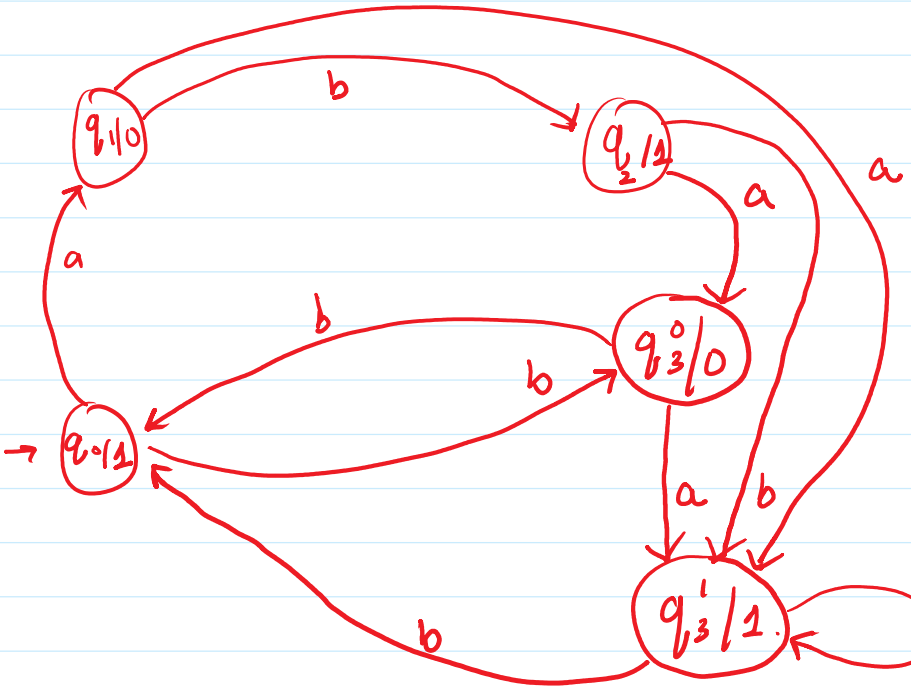


CASE 2:- Dff outputs edges.

CASE 3:- Dff outputs with a loop.

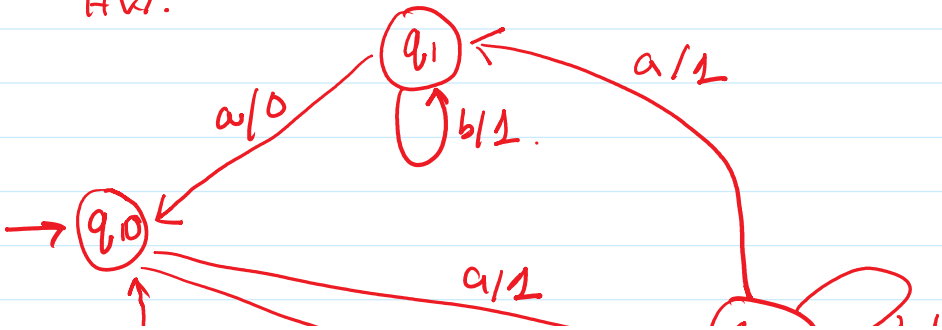






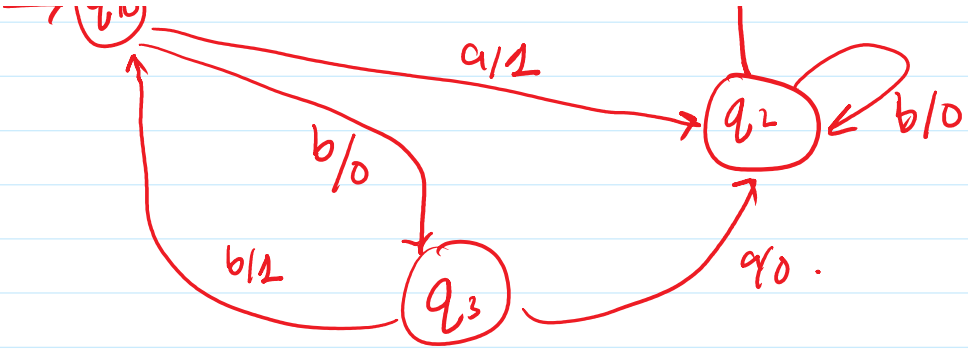
Moore Machine.

Ex: Hw.



Hw.

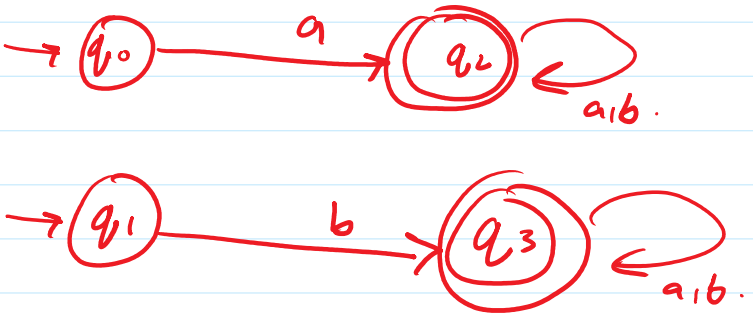
Find Moore.



Find Moore.

Quiz # 5 14 Oct - 2022.

Convert TG to.



Find 1) Moore
2) Mealy.