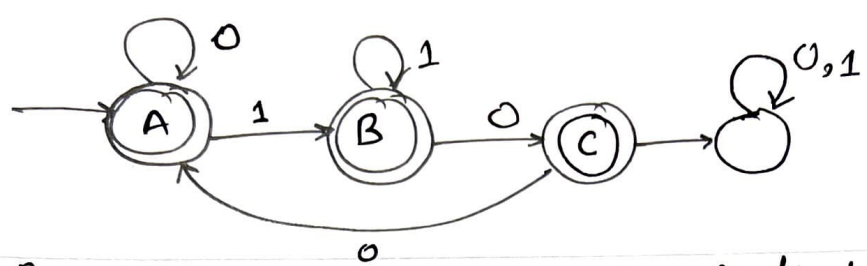
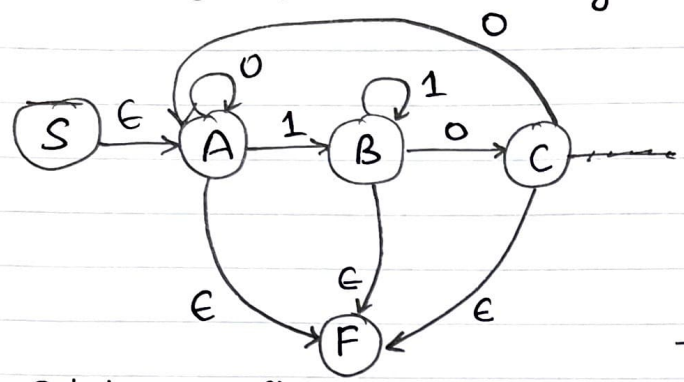


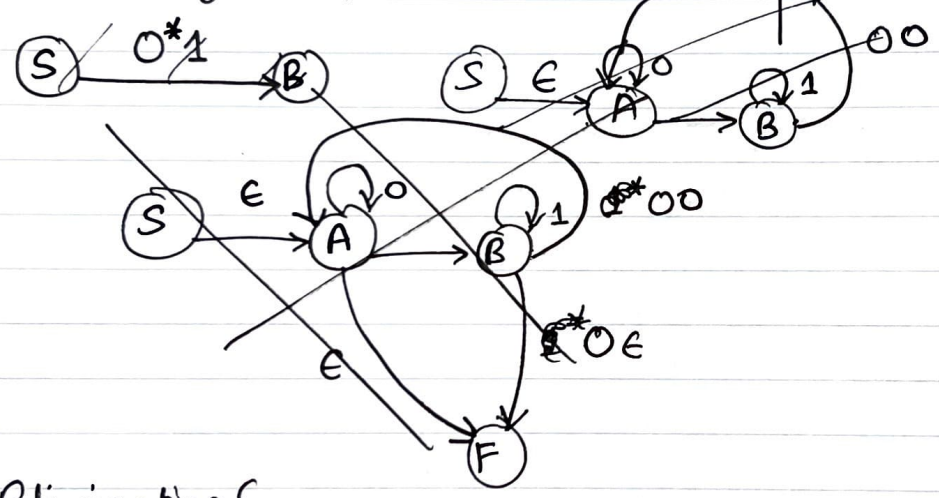
①



Removing trap state & adding start & final state.



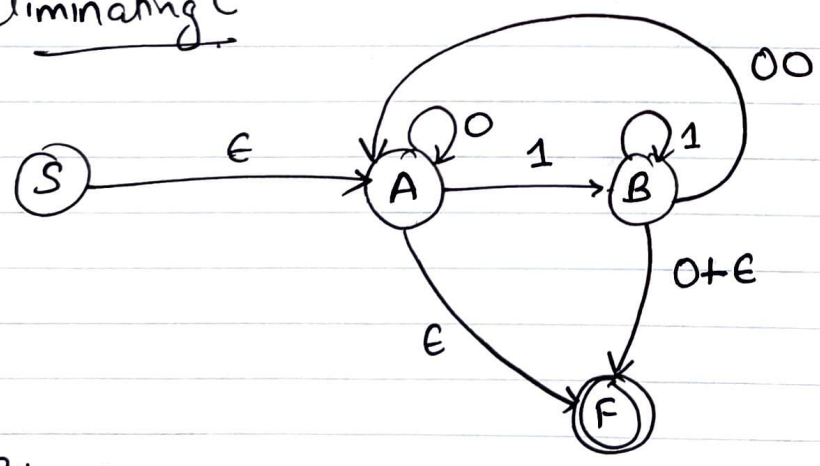
Eliminating A, C,



in	out.
B	A
B	F

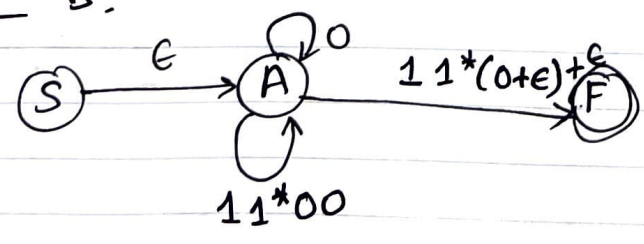
C	in	out
	B	A
	B	F

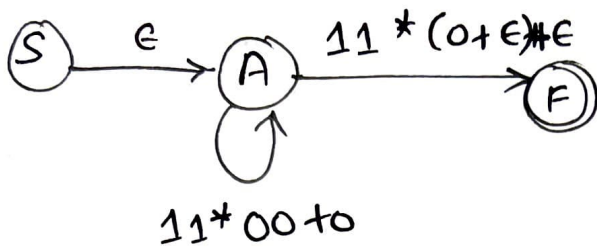
Eliminating C



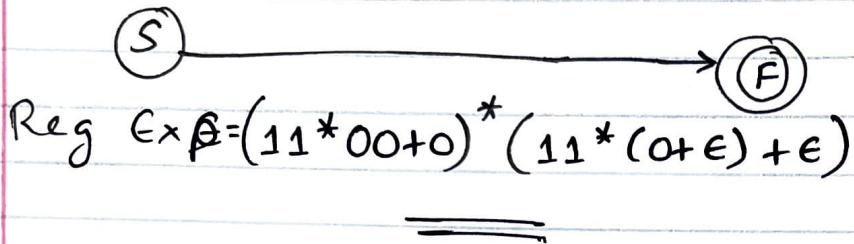
B	in	out.
	A	A
	A	F

Elim. B.

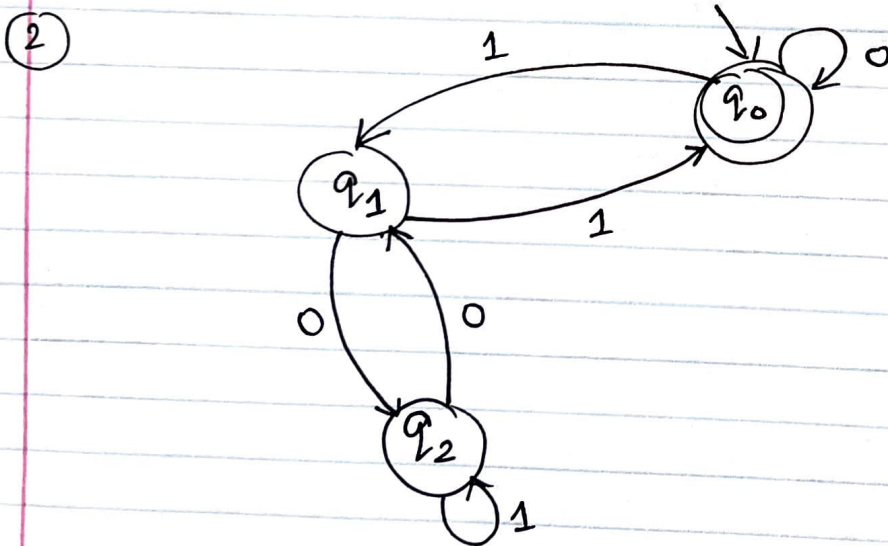




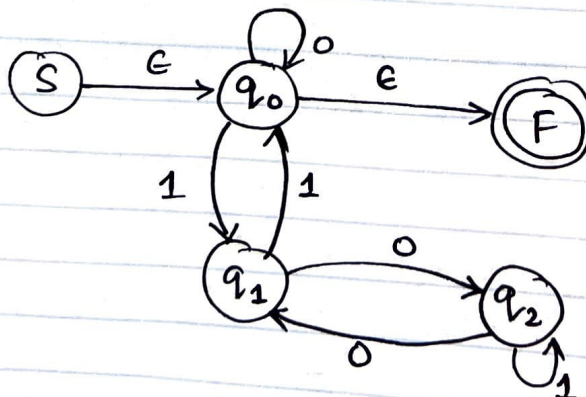
Eliminating A :



∴ Regular Expression =  $(11^*00+0)^* (11^*(0+\epsilon) + \epsilon)$



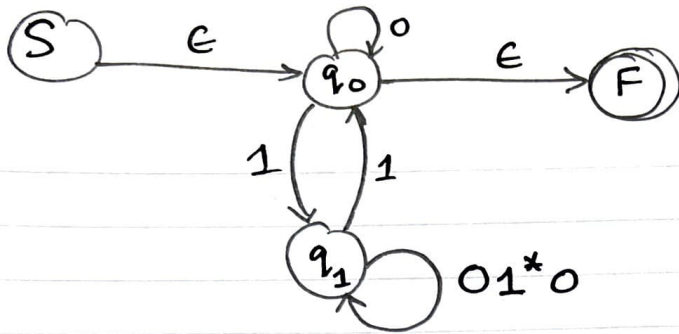
Adding start and final state.



Eliminating  $q_2$ ,

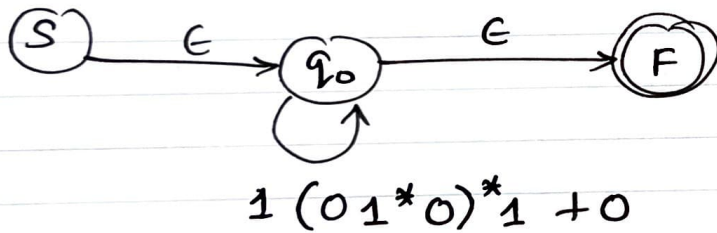
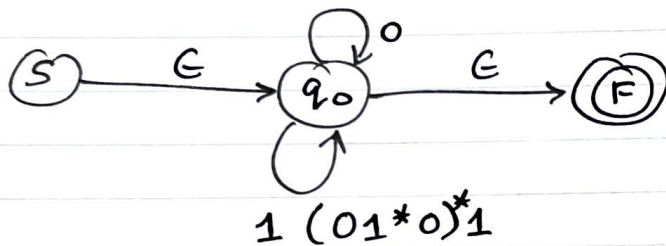
$q_2$	in	out
$q_1$	$q_1$	$q_1$

3

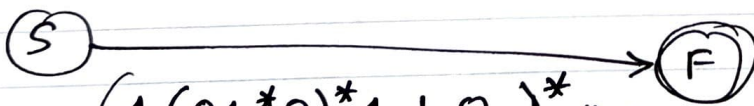


Eliminating  $q_1$ ,

$q_1$	in	out
$q_0$	$q_0$	$q_0$



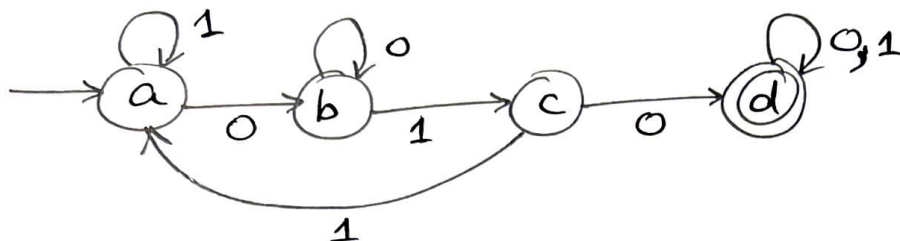
Eliminating  $q_3$ ,



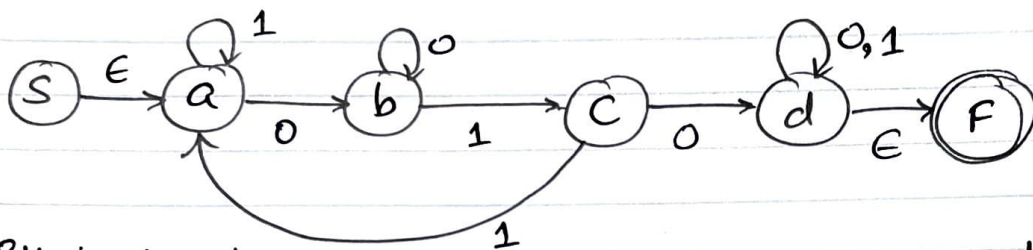
Reg Exp =  $(1(01^*0)^*1 + 0)^*$



③

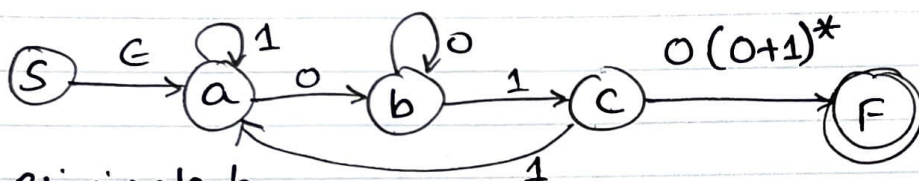


Adding start & final state.



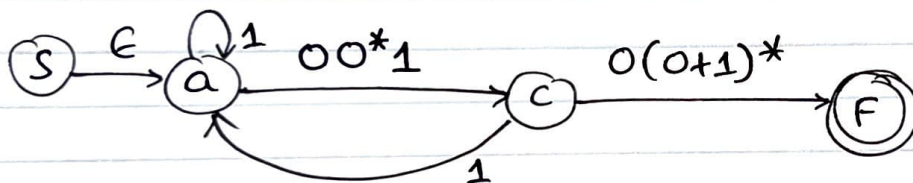
Eliminate d,

d in	out
c	F



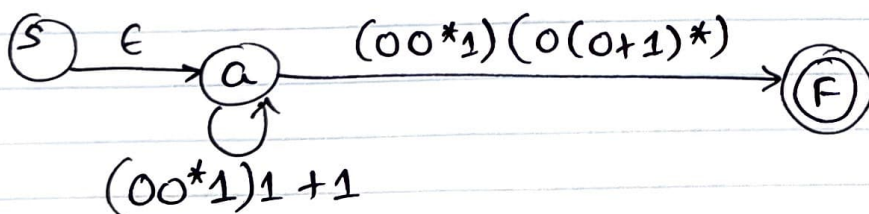
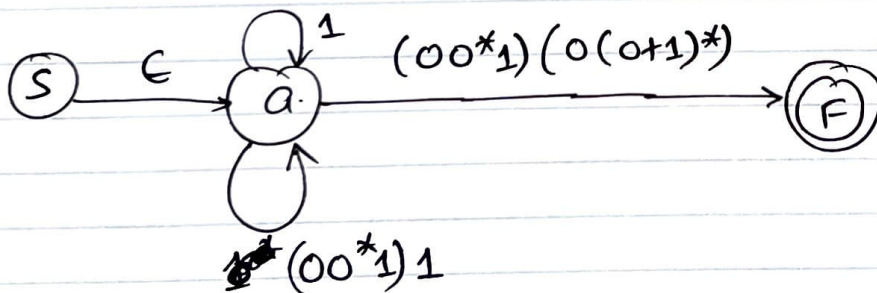
eliminate b,

b in	out
a	c

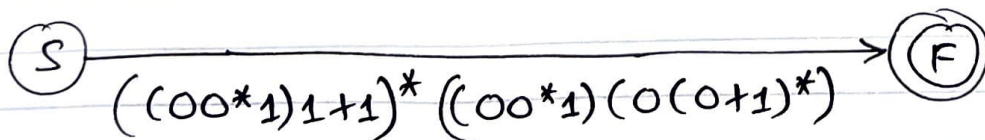


eliminate c,

c in	out
a	F
	a



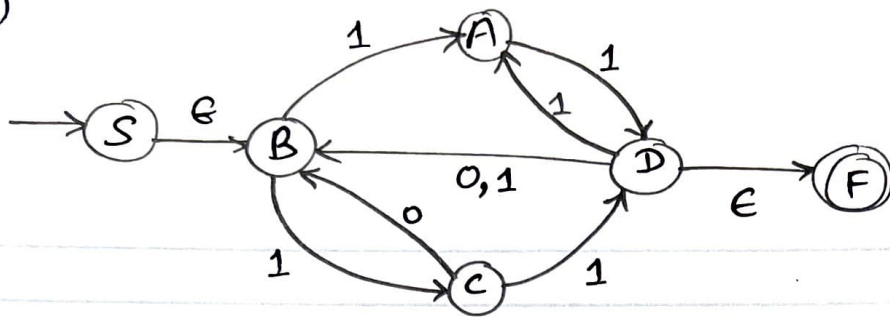
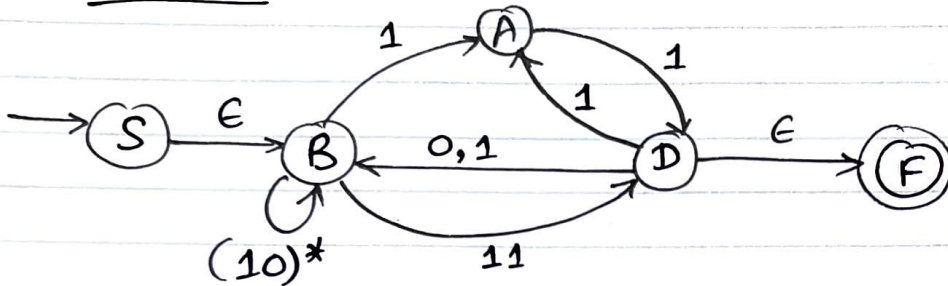
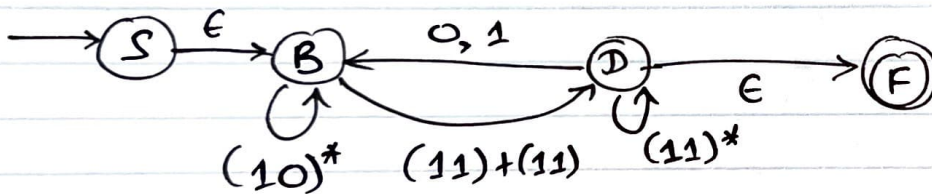
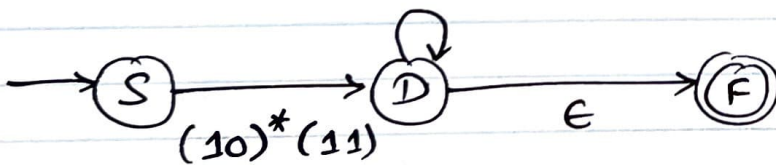
eliminate A,



Reg. Exp =  $((00^*1)1+1)^* ((00^*1)(0(0+1)^*))$

(b)

[5]

Remove C :Remove A :Remove B :Remove D :