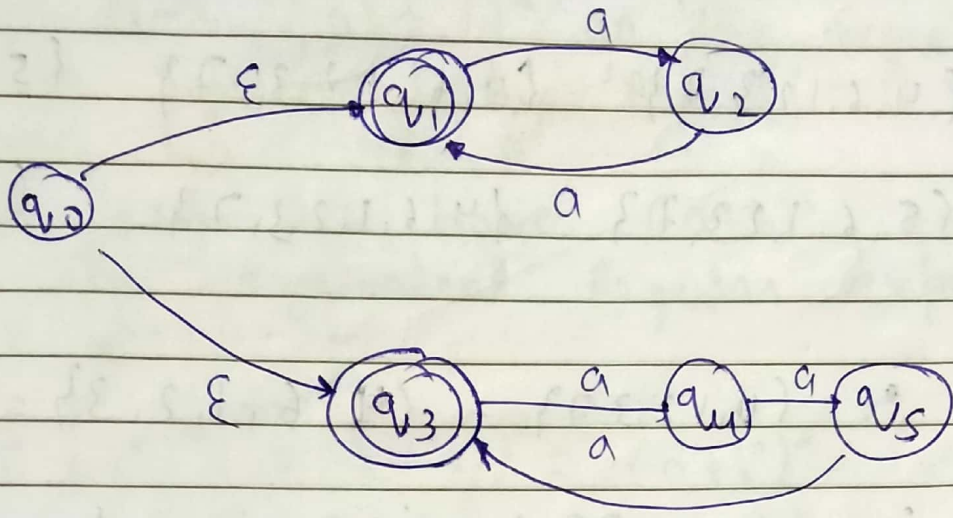
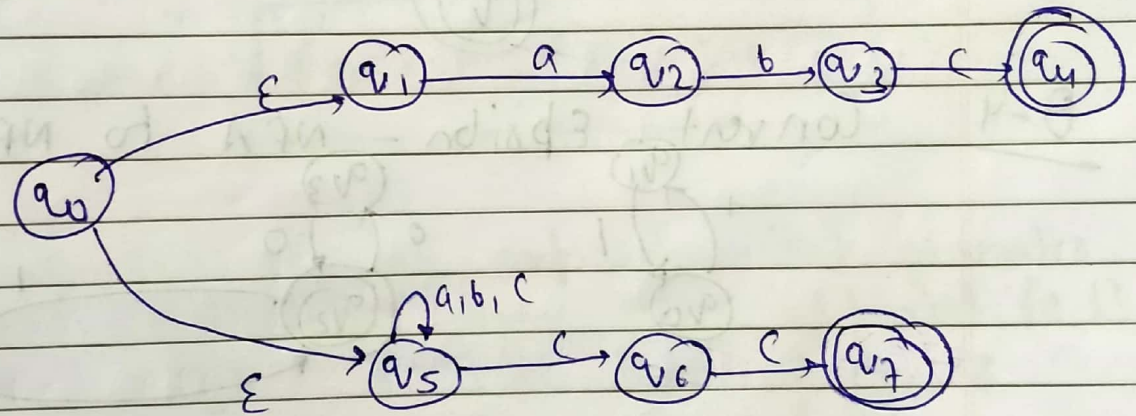


Tutorial-8

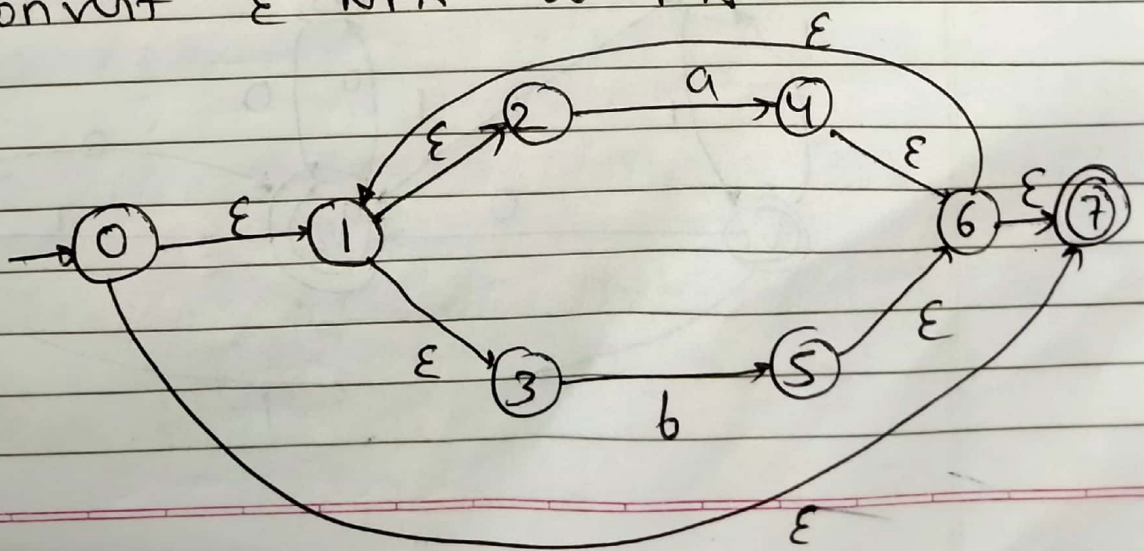
Q-1 Draw a NFA for the language $\{a^n/n \text{ is even or divisible by } 3\}$



Ques-2 Draw a NFA for a language $L = \{abc\} \cup \{w: w \text{ ends with } ce\}$
 $\Sigma = \{a, b, c\}$



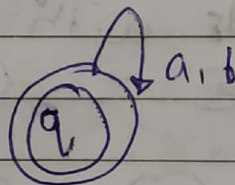
Ques-3 Convert ϵ NFA to DFA



0	a	b
$\{0, 1, 2, 3, 7\}$	$\{4, 5, 1, 2, 3, 7\}$	$\{5, 6, 1, 2, 3, 7\}$
$\{4, 6, 1, 2, 3, 7\}$	$\{4, 6, 1, 2, 3, 7\}$	$\{5, 6, 1, 2, 3, 7\}$
$\{5, 6, 1, 2, 3, 7\}$	$\{4, 6, 1, 2, 3, 7\}$	$\{5, 6, 1, 2, 3, 7\}$

$\therefore \{0, 1, 2, 3, 7\} = \{4, 6, 1, 2, 3, 7\} = \{5, 6, 1, 2, 3, 7\}$

\therefore our DFA is given by



Q-4

Convert Epsilon - NFA to NFA.

