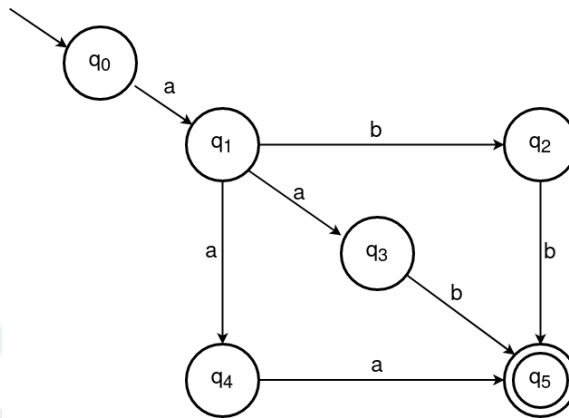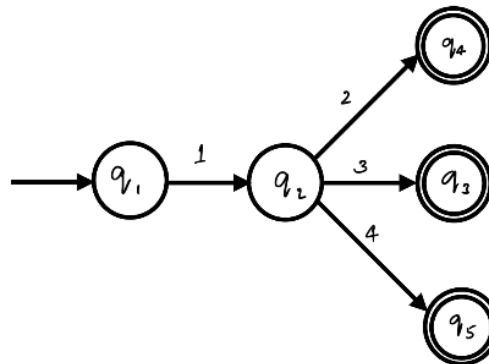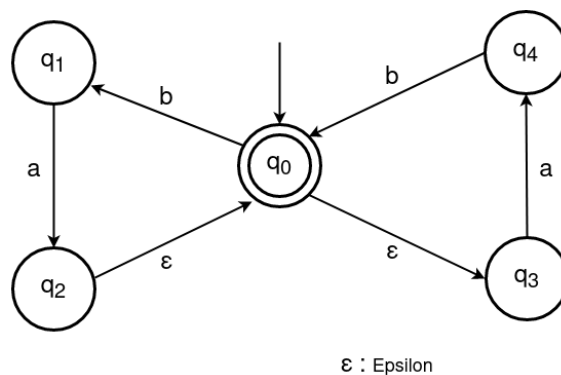# Assignment - 2

CS304

1. Convert the following finite automata to a regular expression.

2. Convert the following finite automata to regular expression using the state elimination method. Show all the steps.

3. Convert the following finite automata to a regular expression.

ε : Epsilon

4. Convert the following regular expression to ϵ-NFA.

$$(a + b + ca)((bab)^* + (a + b)^*)^*(ab)^*$$

5. Convert the following regular expression to ϵ-NFA.

$$b(a + ba + abb)(ba(a + b)^*)$$

6. Convert the following regular expression to NFA. Show all the intermediate states.

$$(bb + bbb)^*$$