**QUESTION 1**

-The length of the strings are supposed to be in multiples greater than 0 thus n>0.

-Below is the simulation of the automaton

a,b,c a,b,c a,b,c P R S a,b,c

Here

States -P, Q, T and S

P-Start state

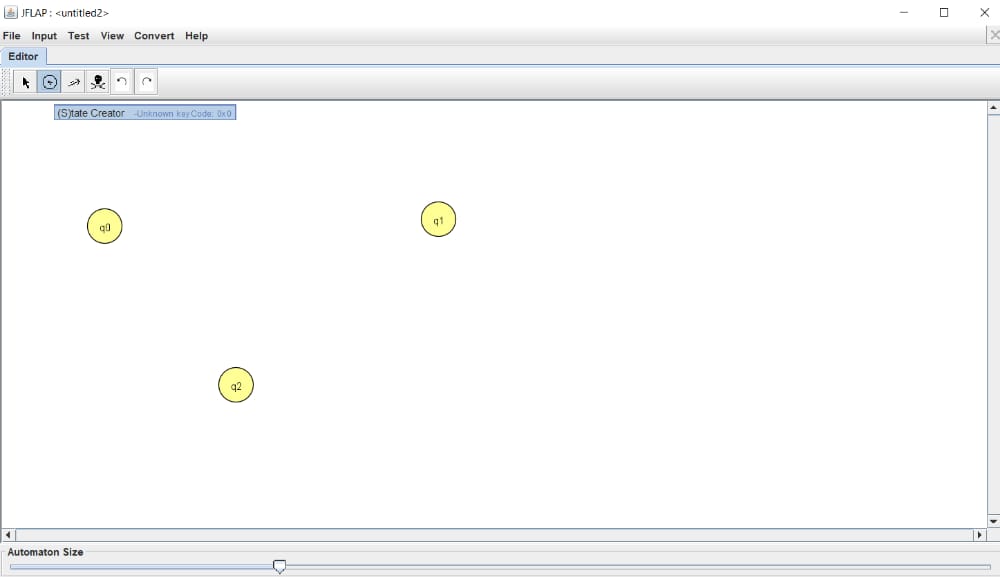
S-Final State/Accepted State

The string ends in state Q so the string will not be accepted.

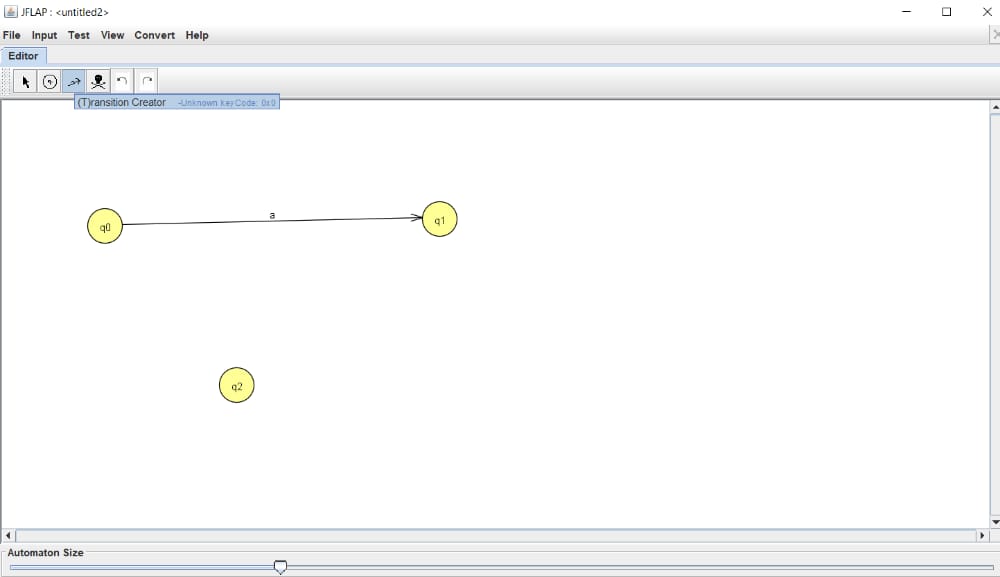
**QUESTION 2**

**Steps Using JFLAP**

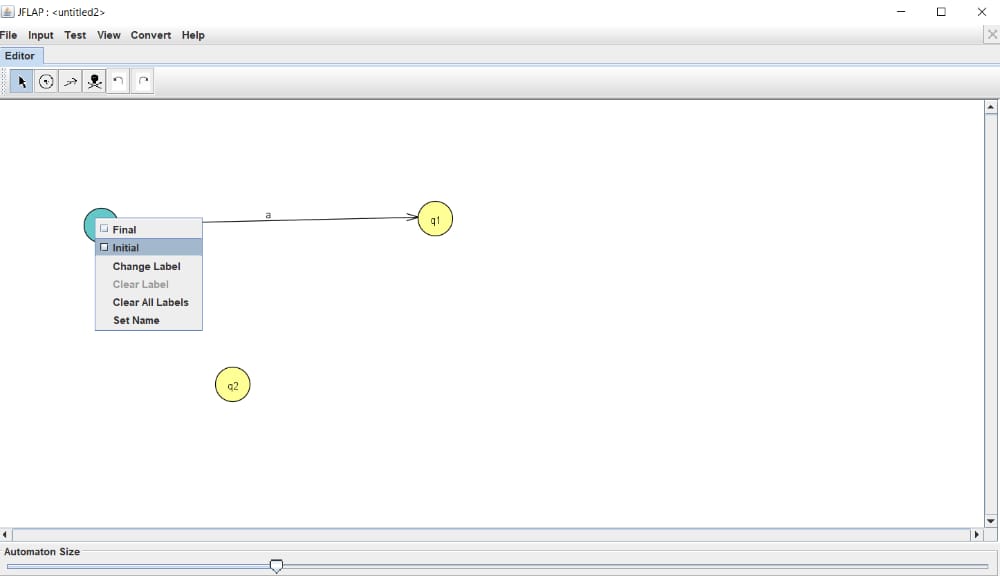
1.Click on create state and create 3 states



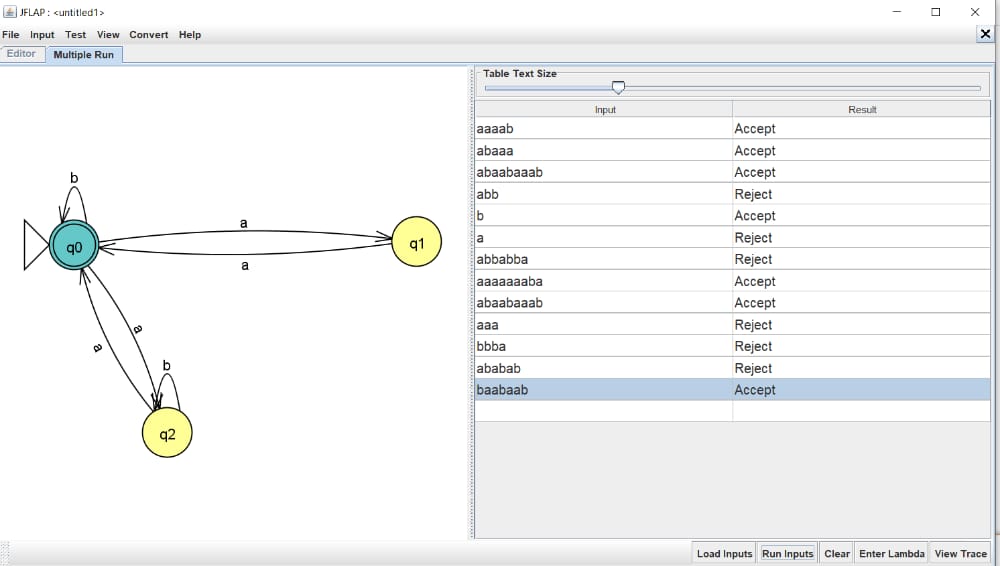
2.Click on create transition and add appropriate transition



3.Then make the initial state and the final state by right clicking on the state

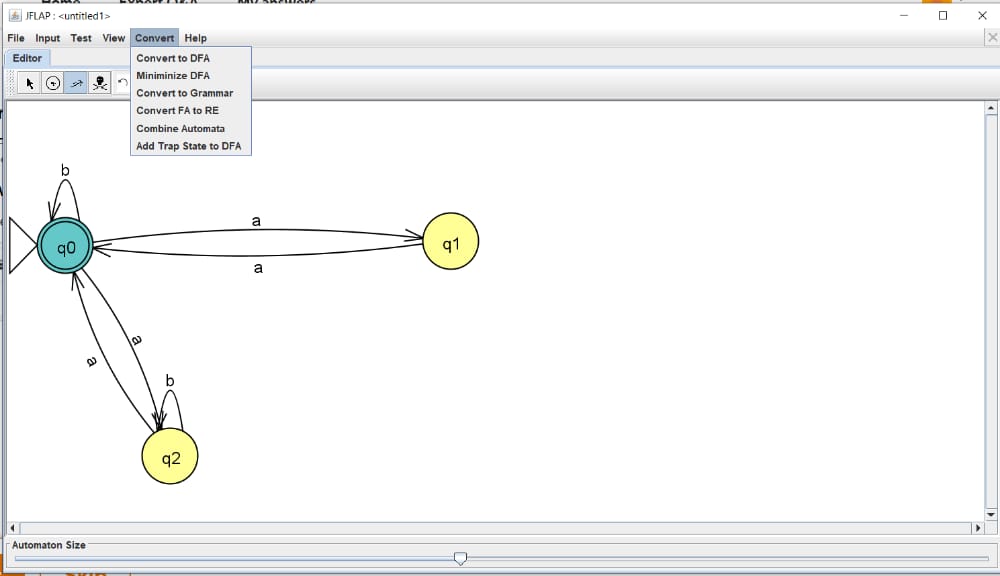


4.Here are the test cases to check whether our NFA is correct

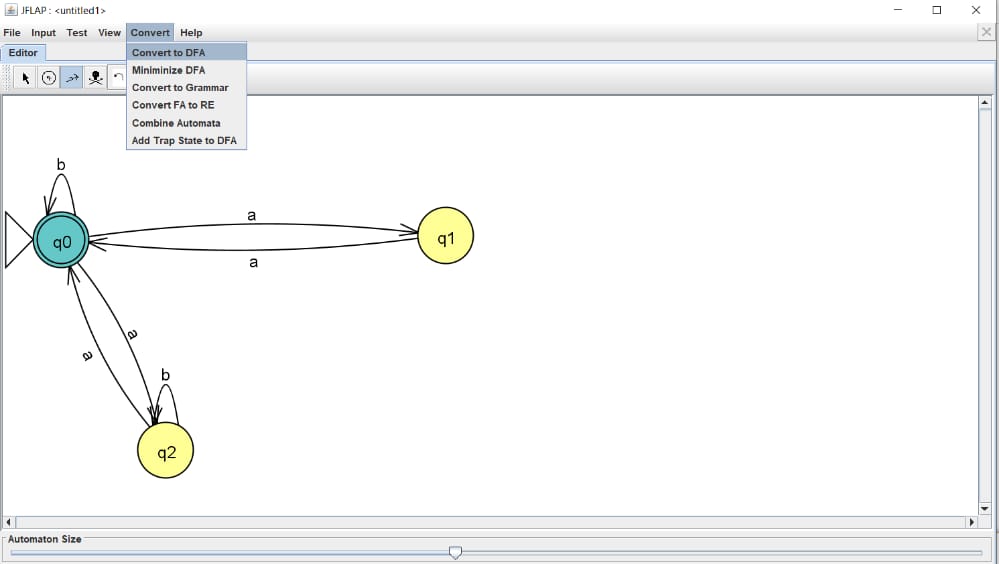


**These are the steps of using JFLAP to convert NFA to DFA**

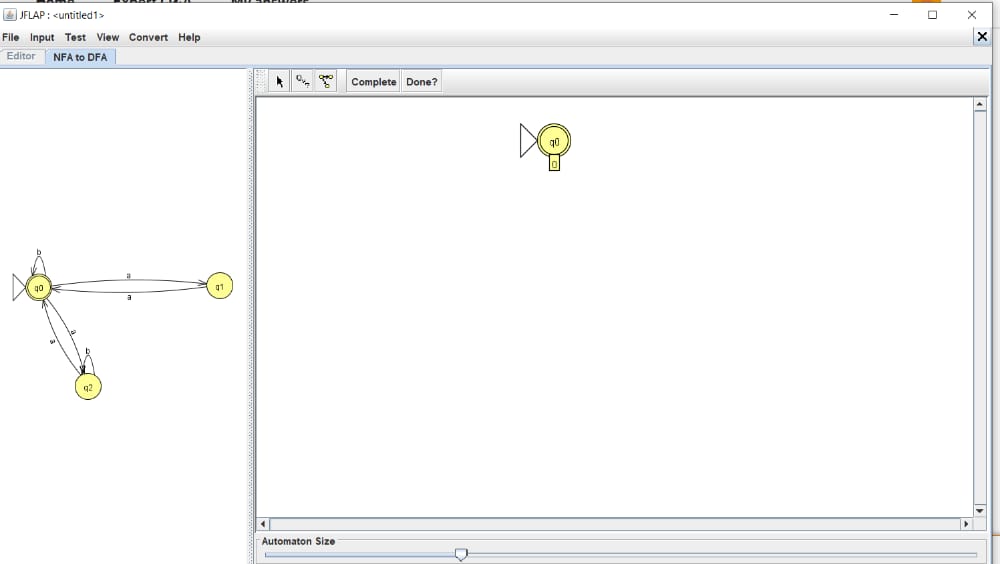
1.First click on convert



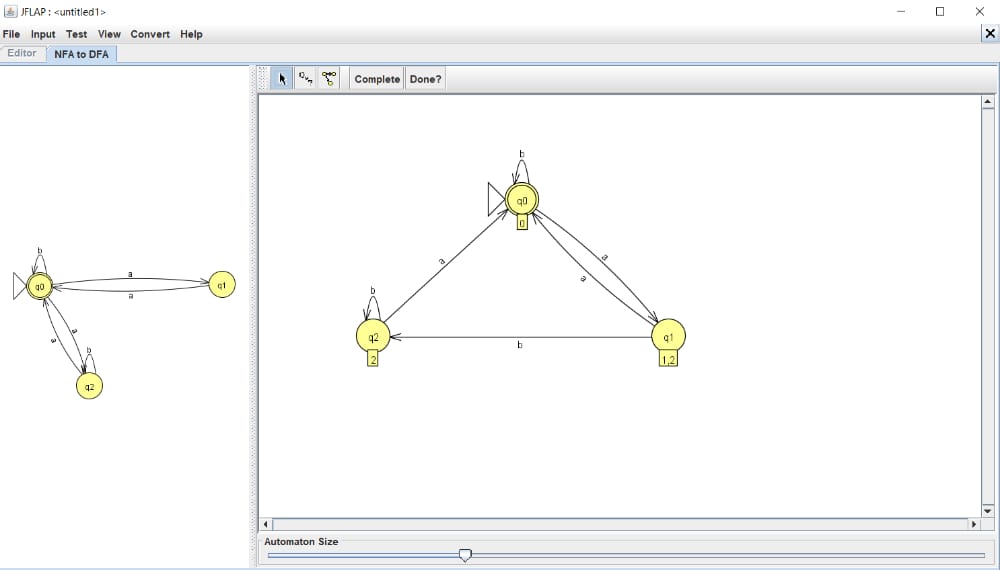
2.Then click to convert to DFA



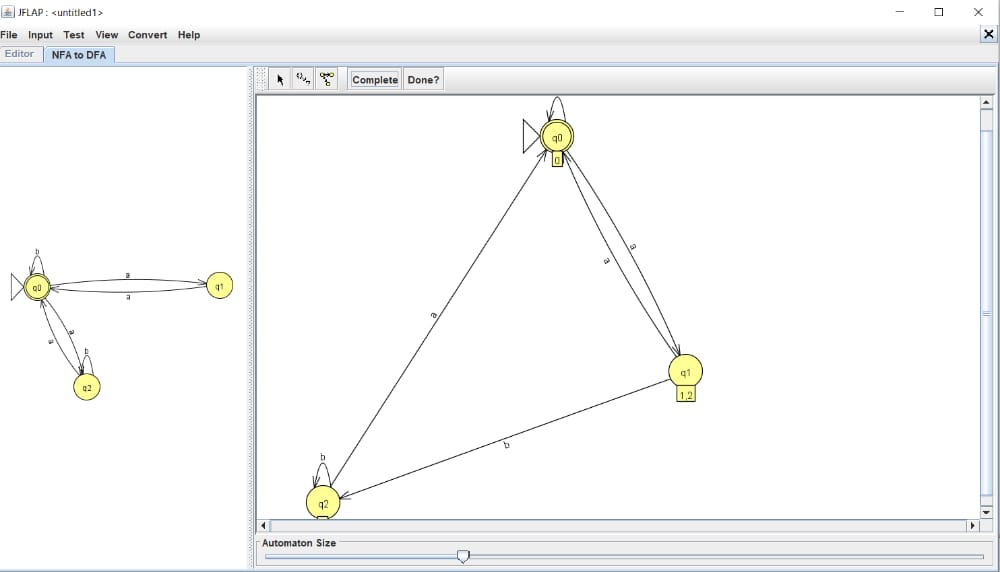
3.Then click on complete



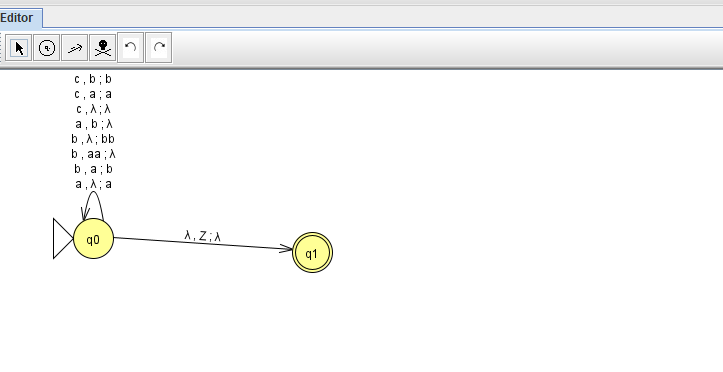
4.After clicking the complete your DFA will build using jflap

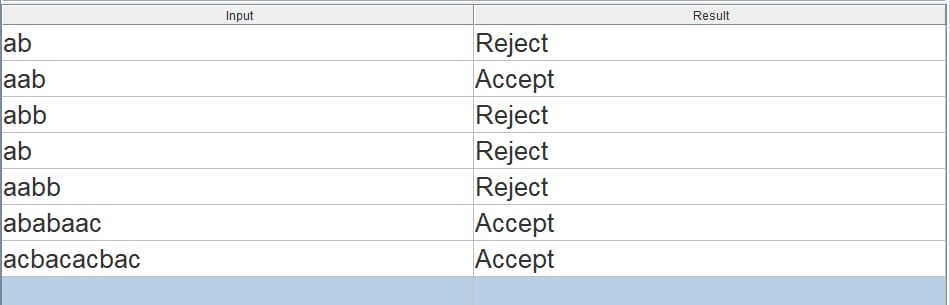


5.You can resize the image of the automata



**QUESTION 3**





**QUESTION 4**

