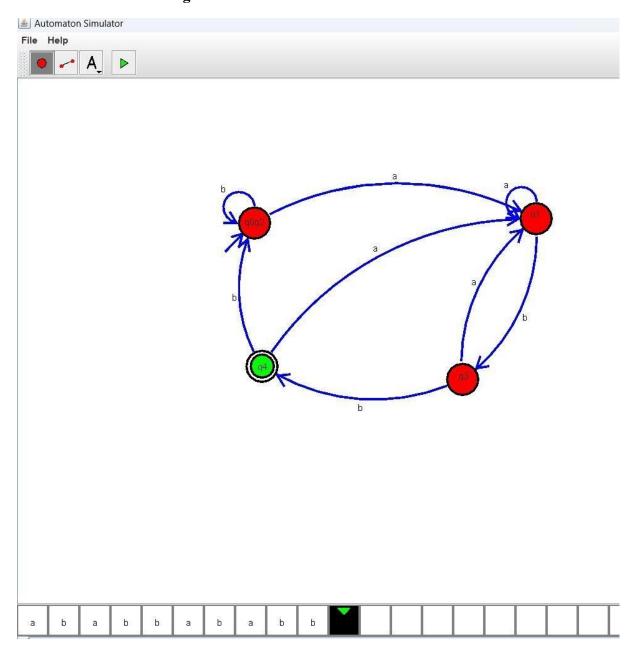
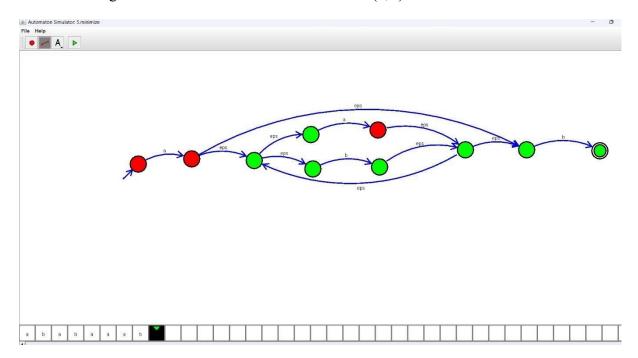
# 1. Minimize the DFA given below:



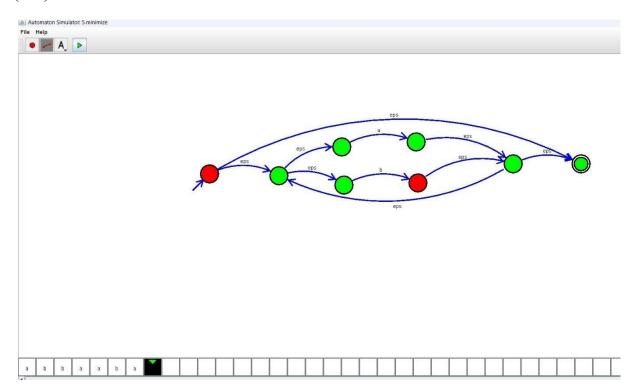
## **2.1 Define r.e. for the following languages:**

Set of all strings that start with a and end with b over = $\{a,b\}$ 



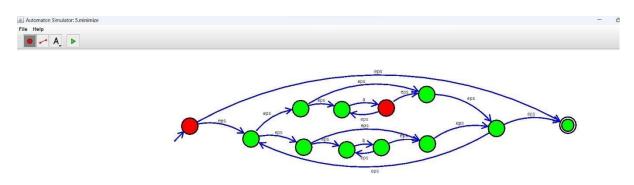
## 2.2 Identify the language defined by the r.e:

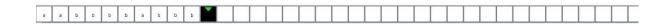
(0+1)\*

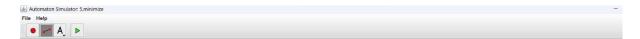


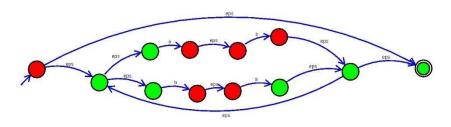
## 3. Construct NFA with $\epsilon$ -moves equivalent to the regular expressions given below: i)

(a\*+b\*)\*





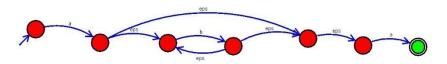






## iii) ab\*a

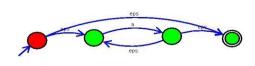


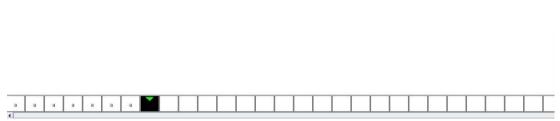


а	b	b	b	b	a	*										T				Т	Τ	Τ	T	T									
41		_			-		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

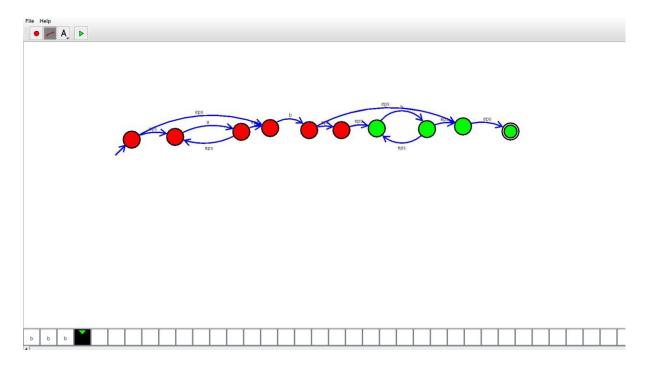
## 4. Construct r.e. from the DFA given below:







S2:a\*bb\*



# S3: a\*bb\*a(a+b)\*

