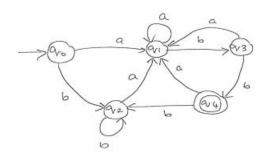
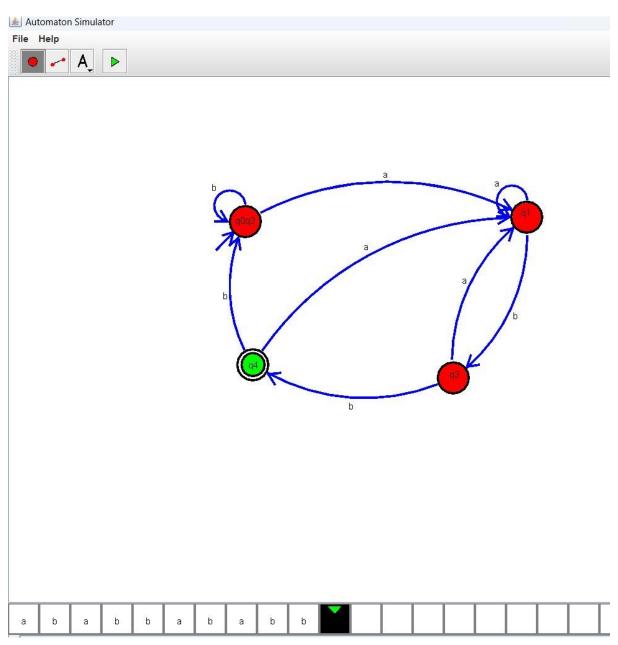
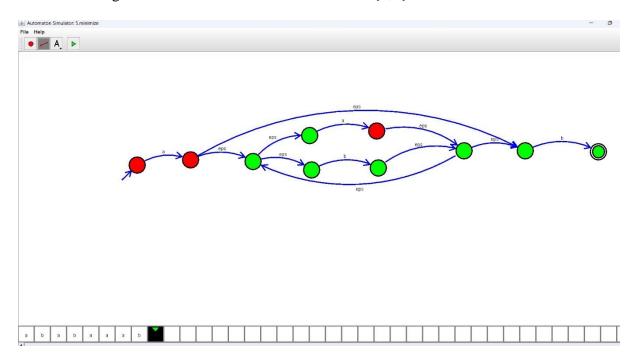
# 1. Minimize the DFA given below:





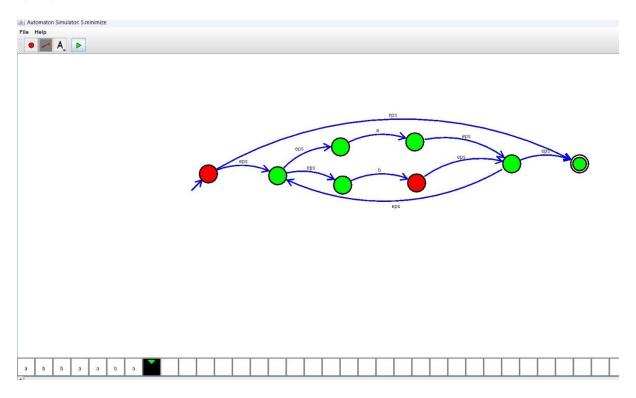
#### **2.1 Define r.e. for the following languages**:

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



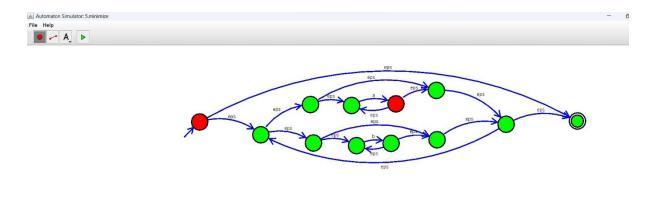
## 2.2 Identify the language defined by the r.e:

(0+1)\*

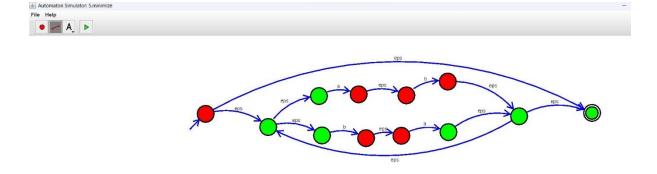


### 3. Construct NFA with $\epsilon\text{-moves}$ equivalent to the regular expressions given below:

i) (a\*+b\*)\*



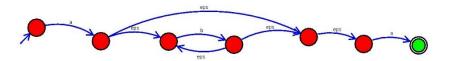






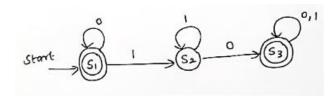
#### iii) ab\*a







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

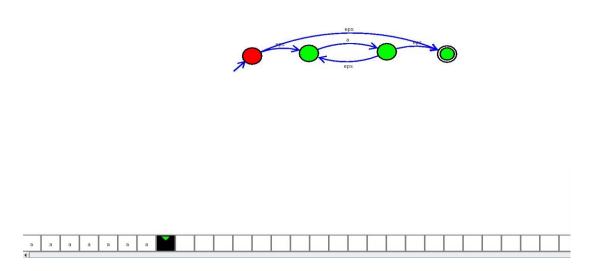


S1: a\*

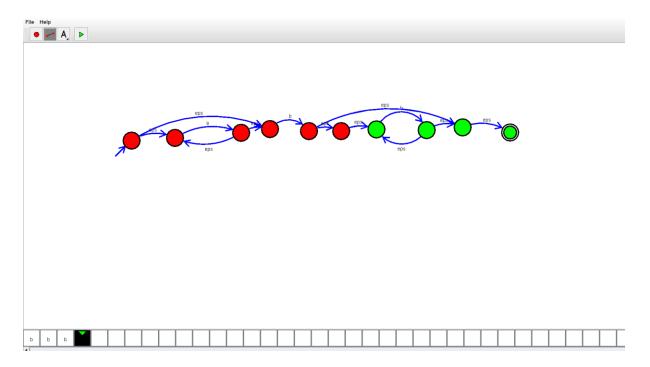
File Help

A

P



S2:a\*bb\*



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

