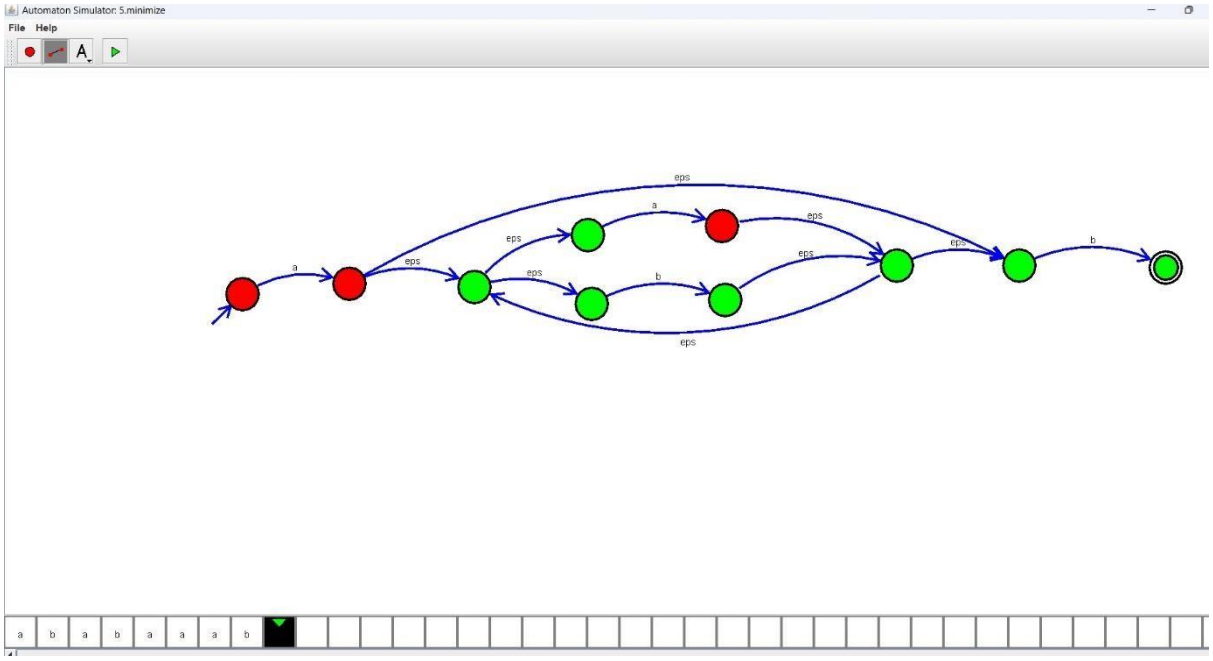
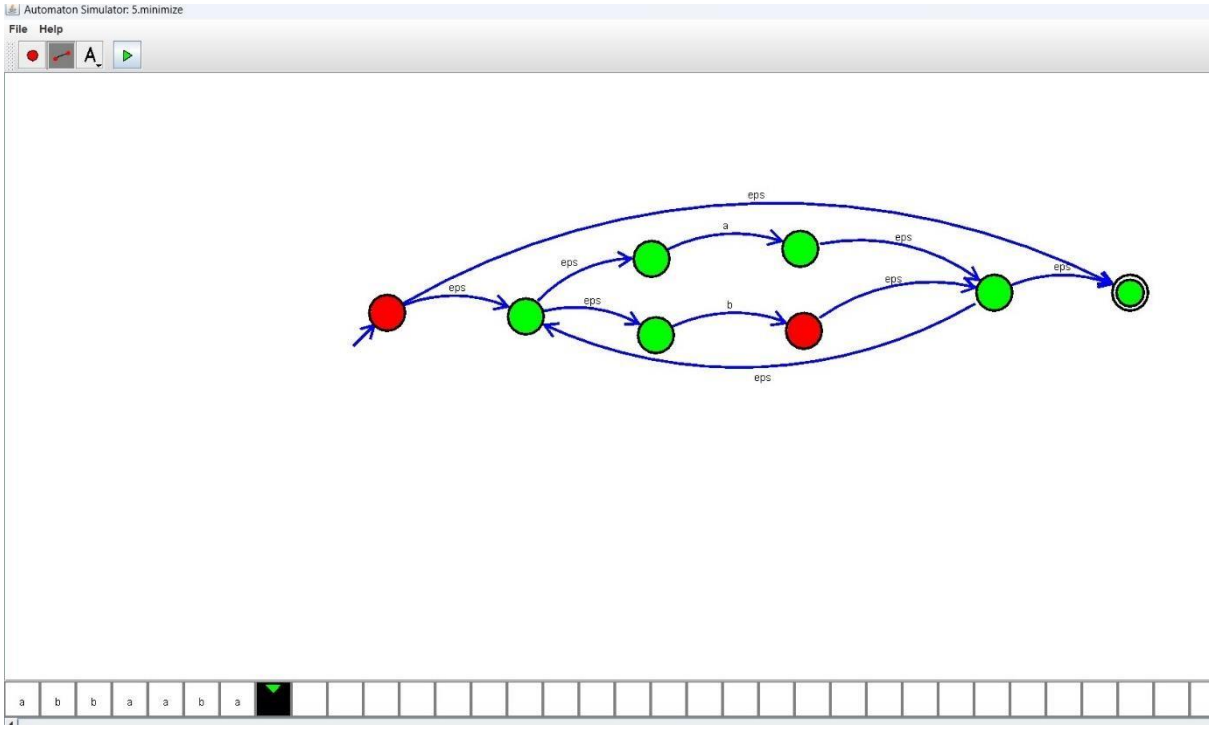
1.1 Define r.e. for the following languages:

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

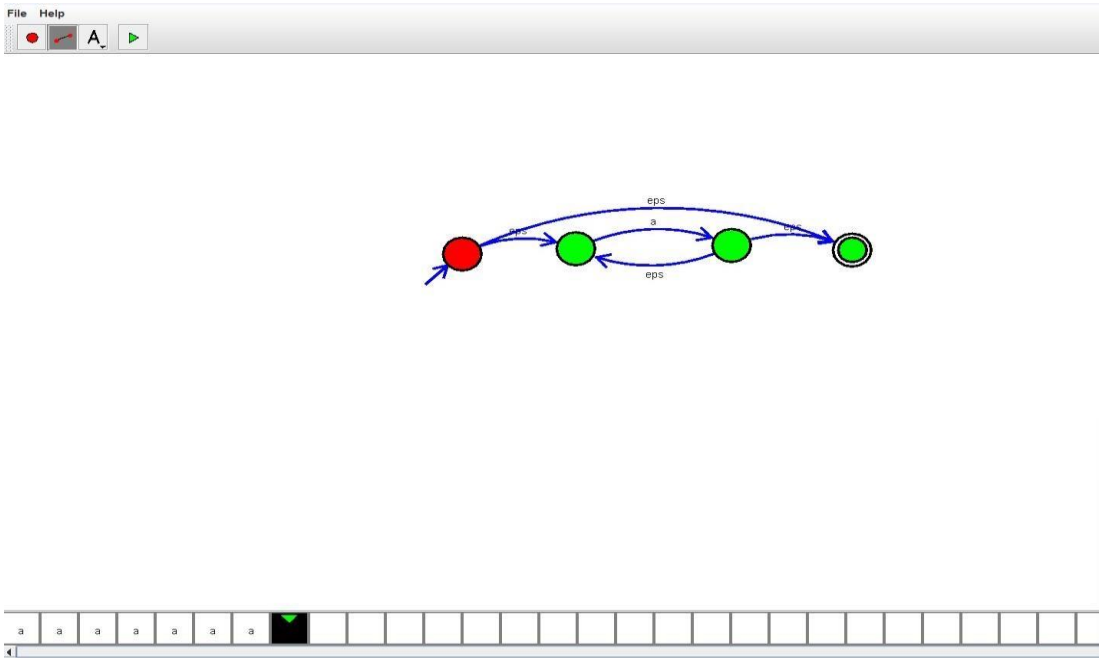


1.2 **Identify the language defined by the r.e**:
(0+1)*

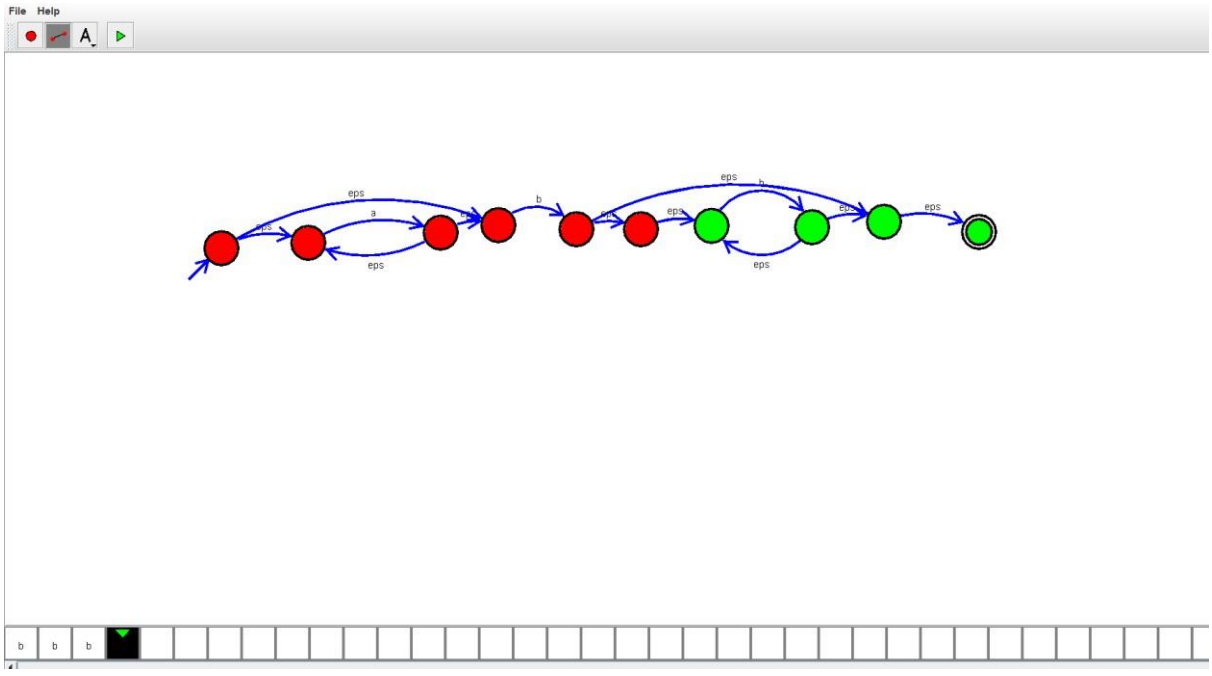


3. Construct r.e. from the DFA given below:

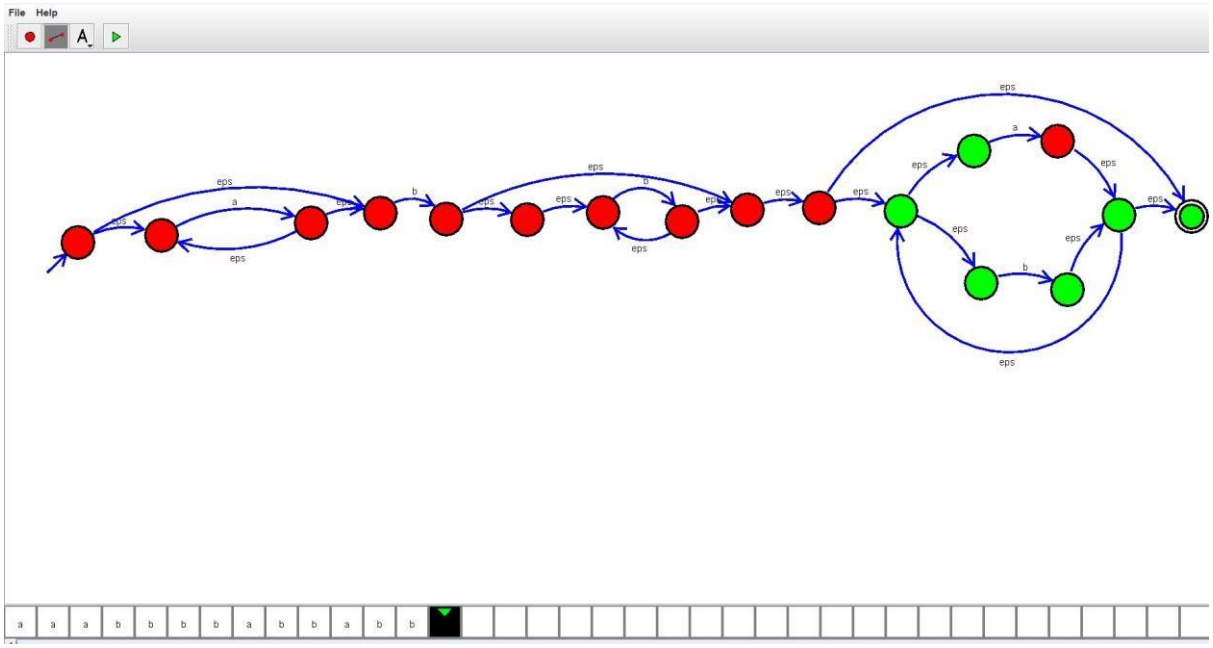
S1: a*



S2:a*bb*

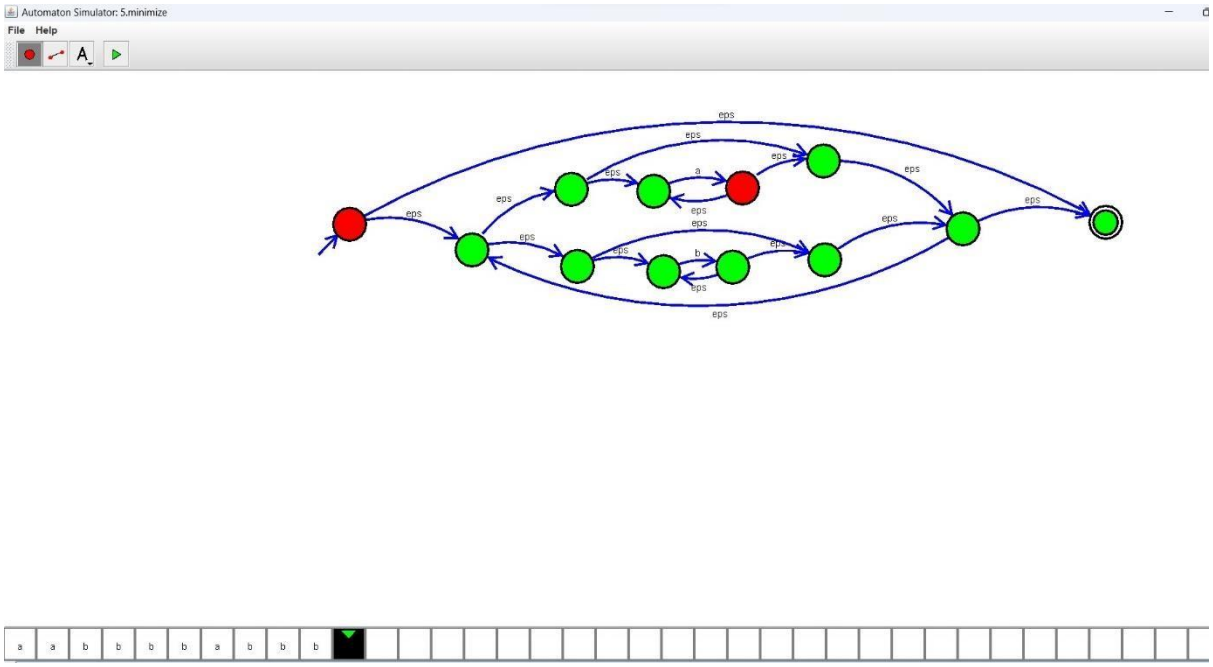


S3: a*bb*a(a+b)*

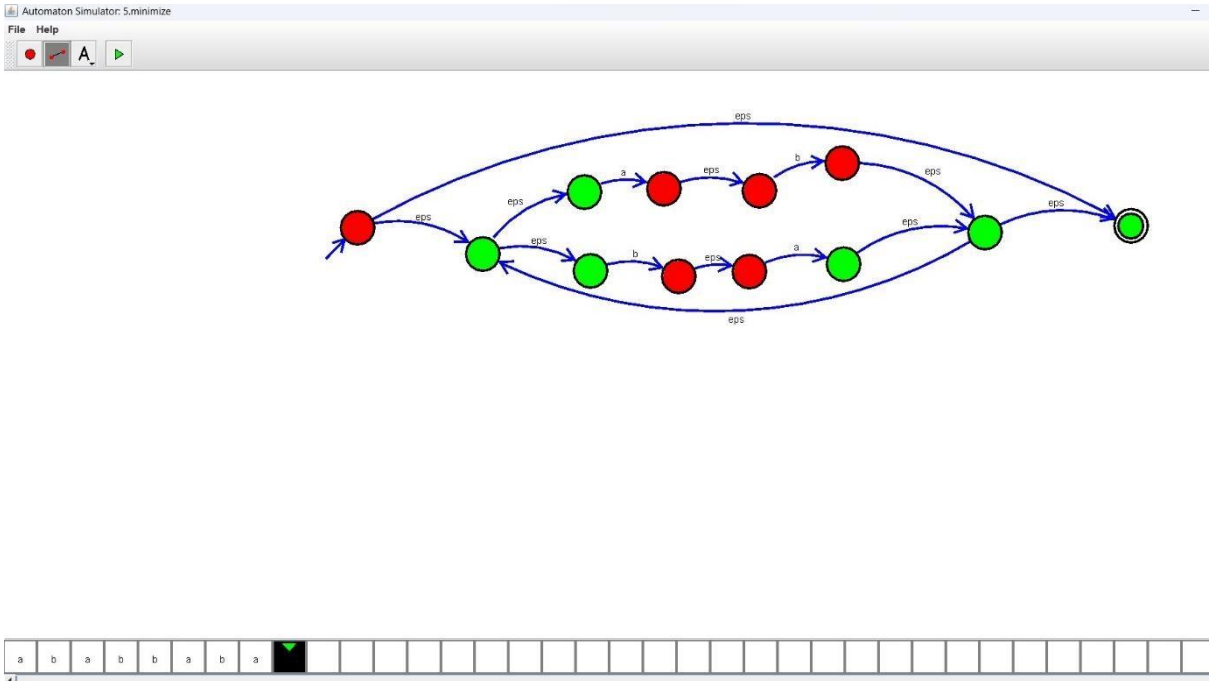


4.Construct NFA with ε-moves equivalent to the regular expressions given below: i)

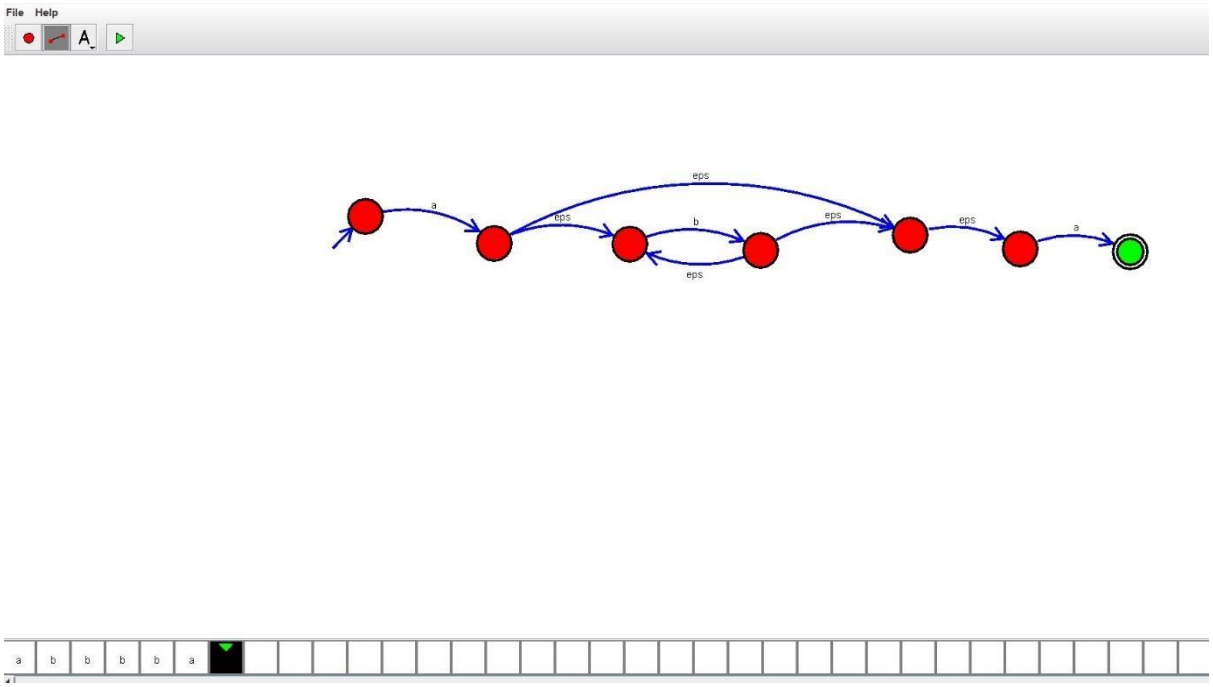
(a*+b*)*



ii) (01 + 10)*



iii) ab*a



4. Minimize the DFA given below: