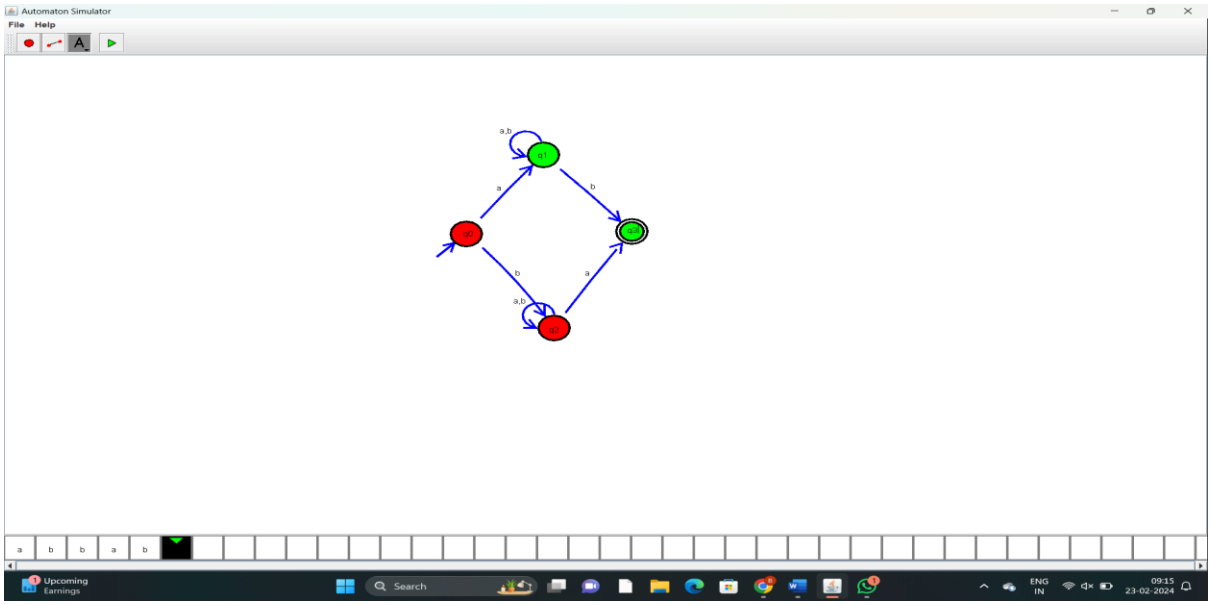
DAY2

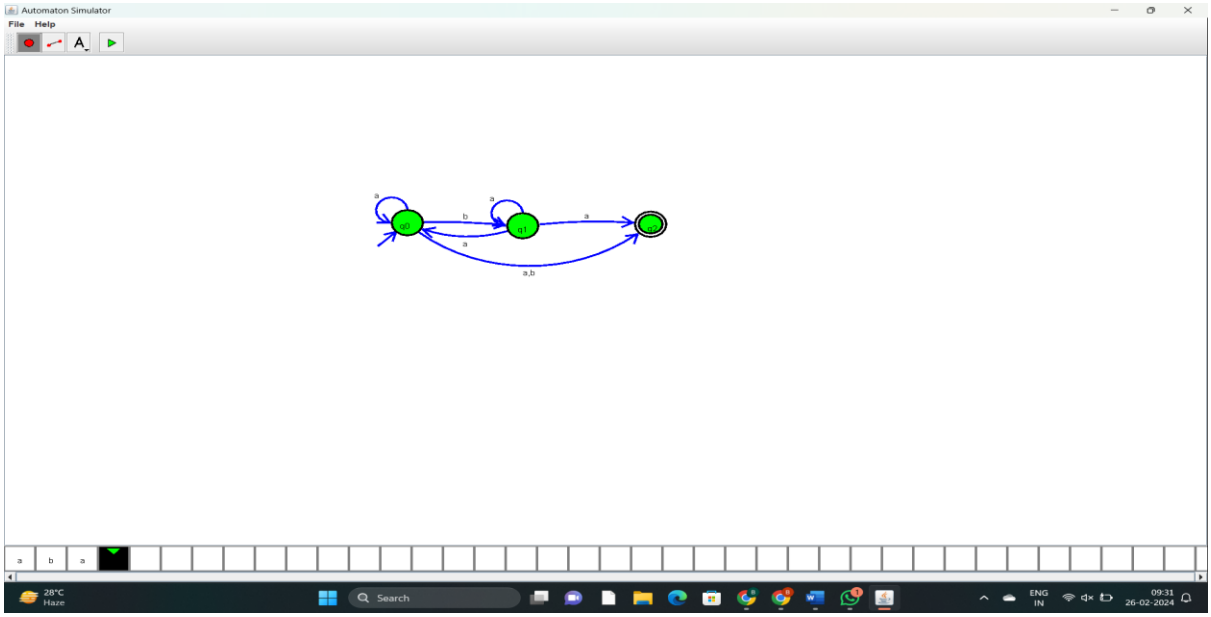
THEORY OF COMPUTATION

PRATICAL SESSION

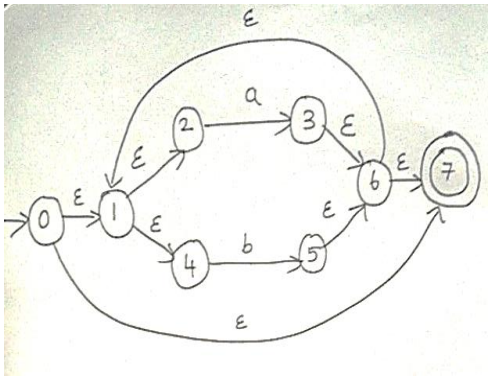
2.3) Construct an NFA for binary strings that start and end with different digits.

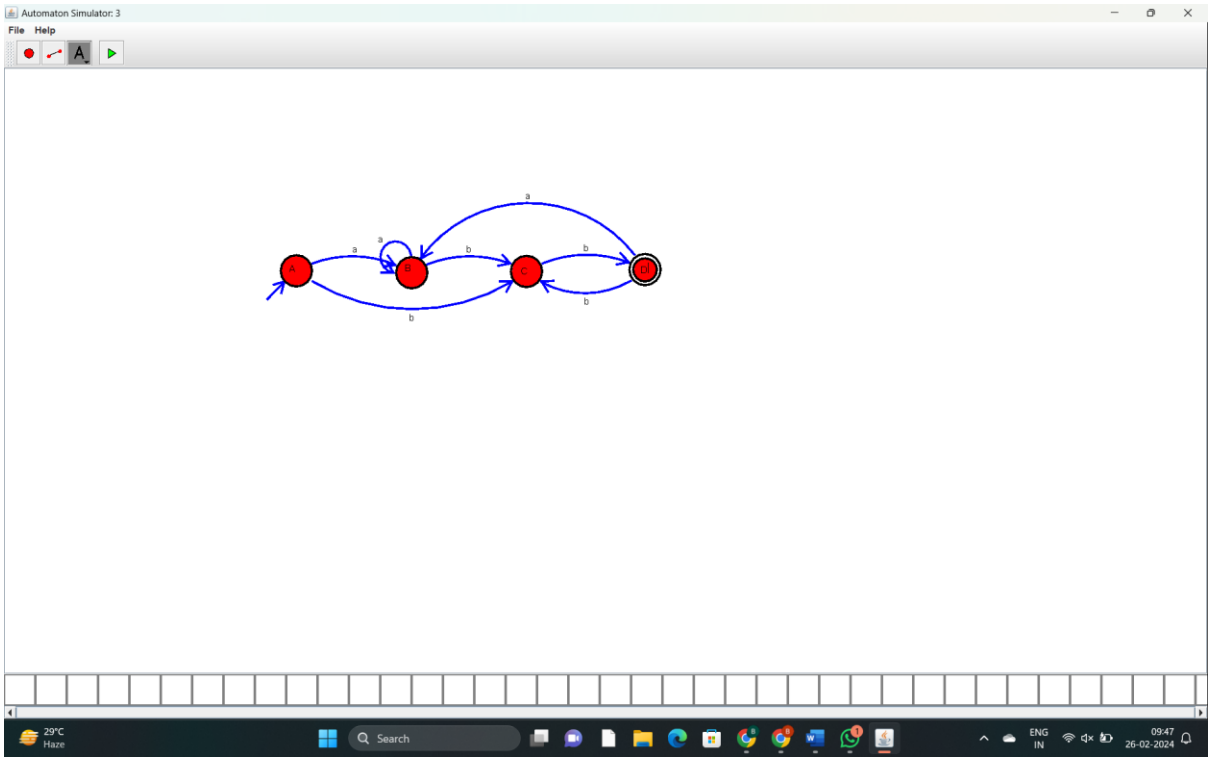


3. Construct an NFA without ϵ-moves equivalent to the NFA with ϵ-moves given

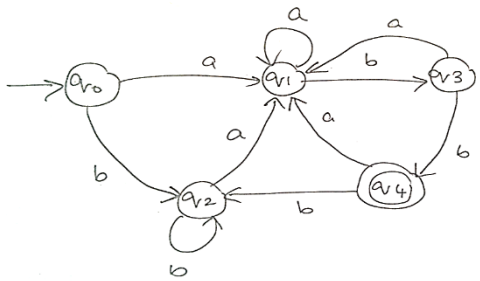


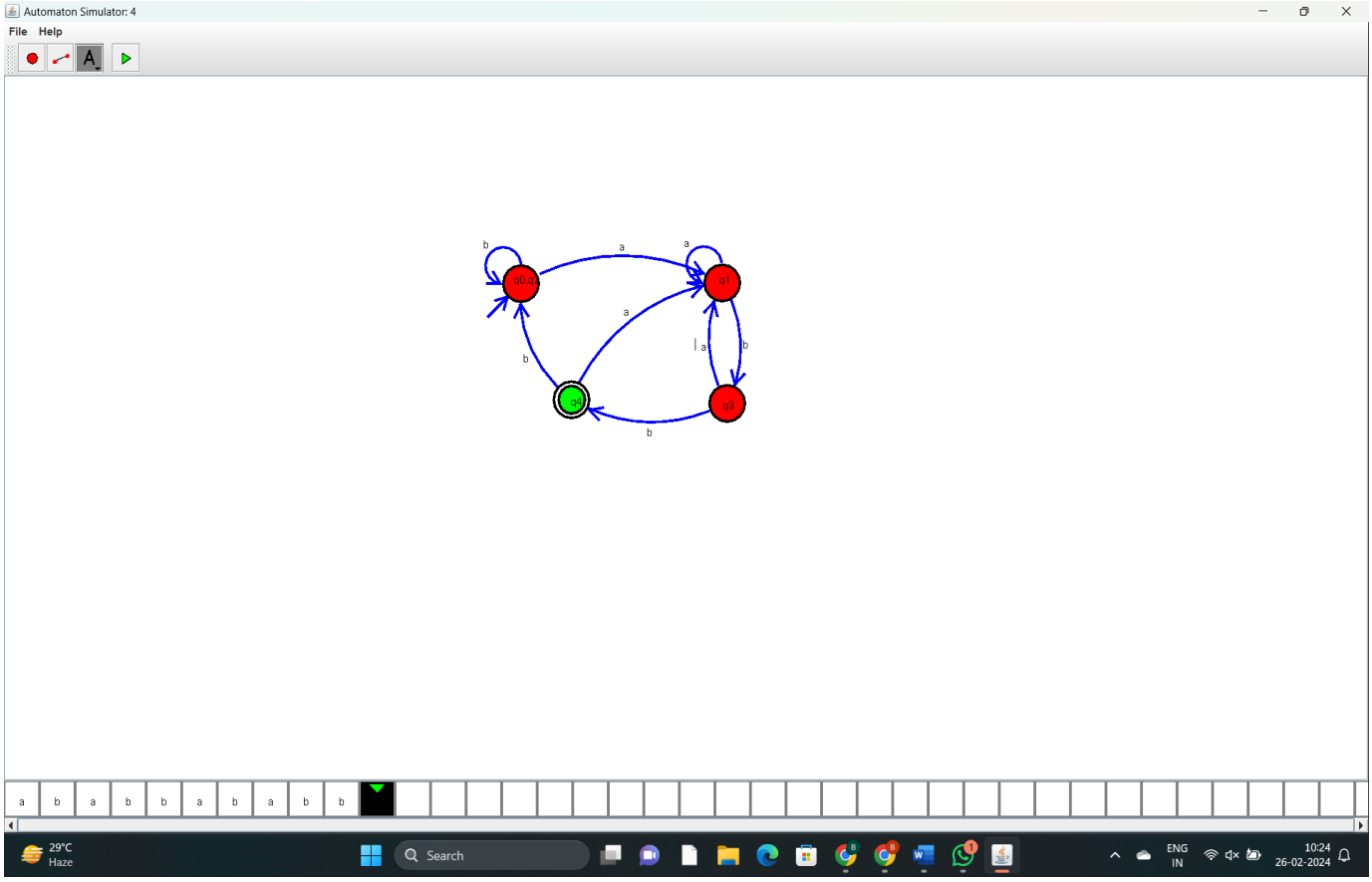
4. Construct a DFA equivalent to the NFA with ε-moves given below:





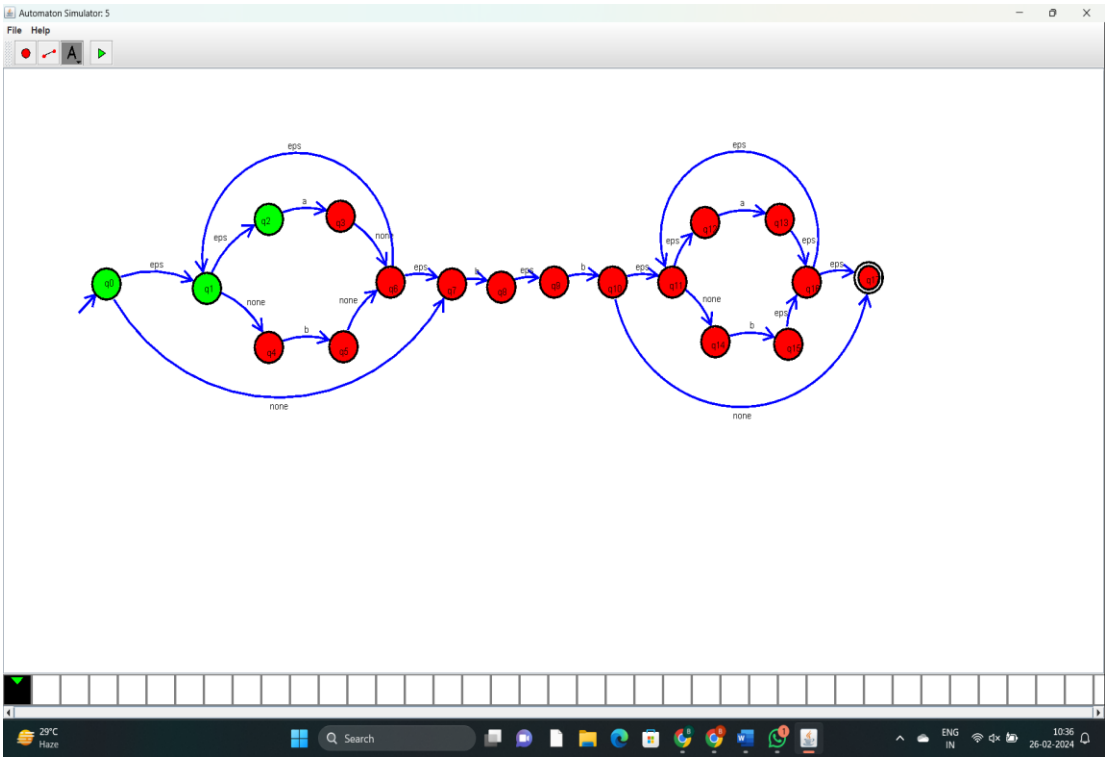
5.Minimize the DFA given below:



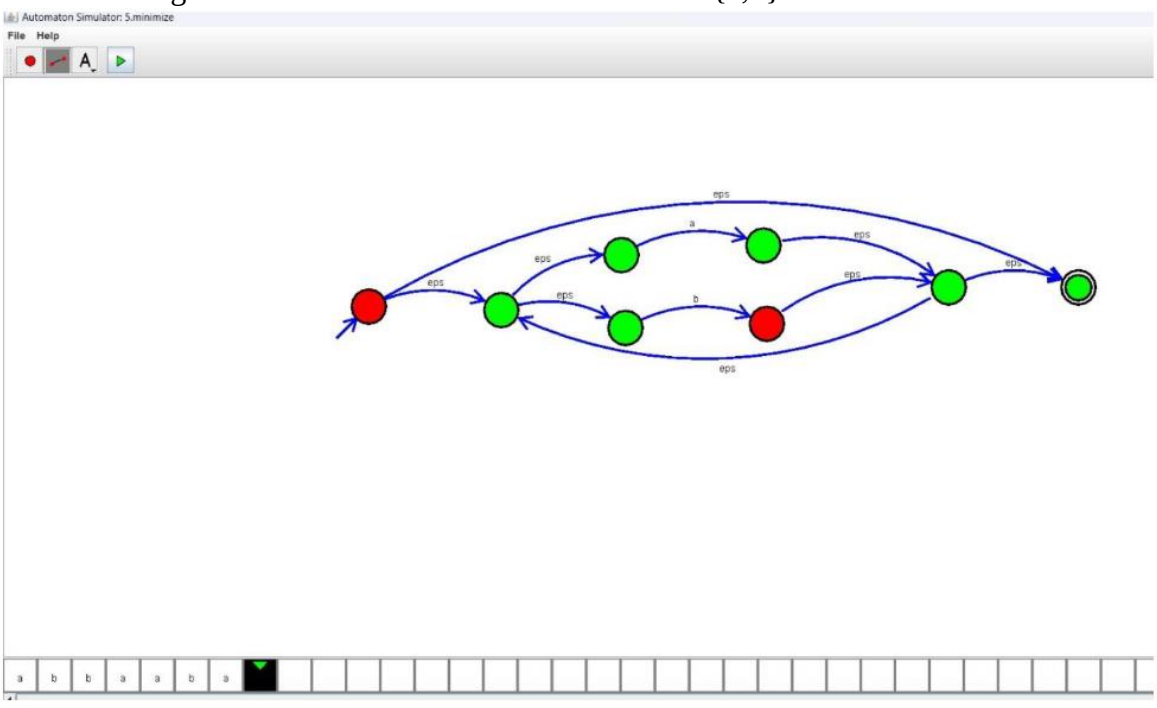


6.Define r.e. for the following languages:

i) Set of all strings of a's and b's having bb as a substring

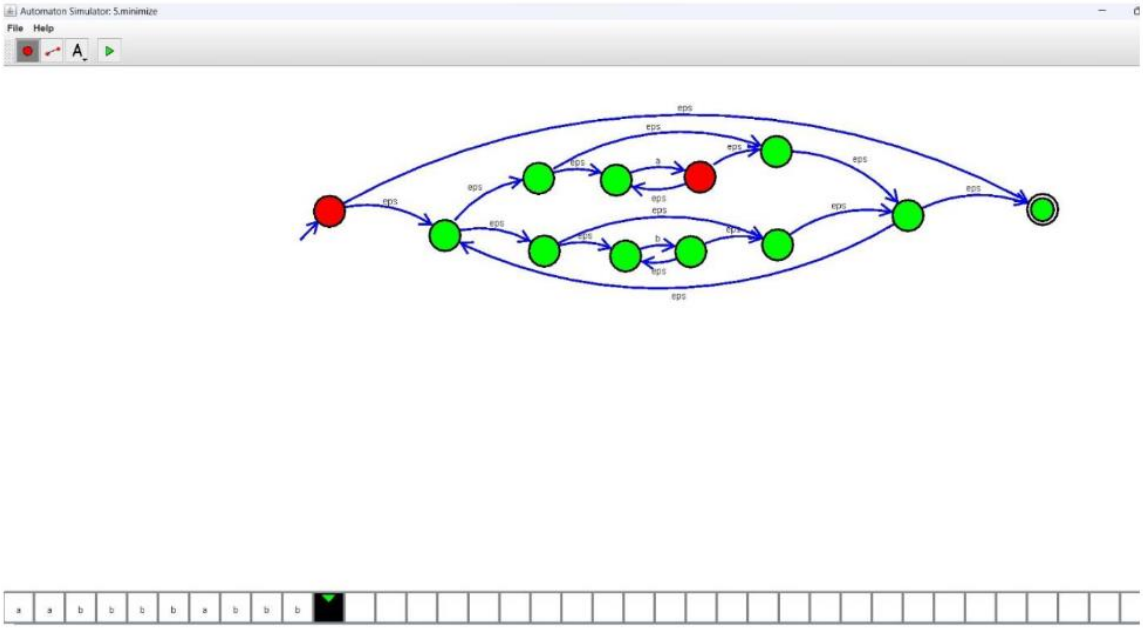


ii) Set of all strings that start with a and end with b over **Σ**={a,b}

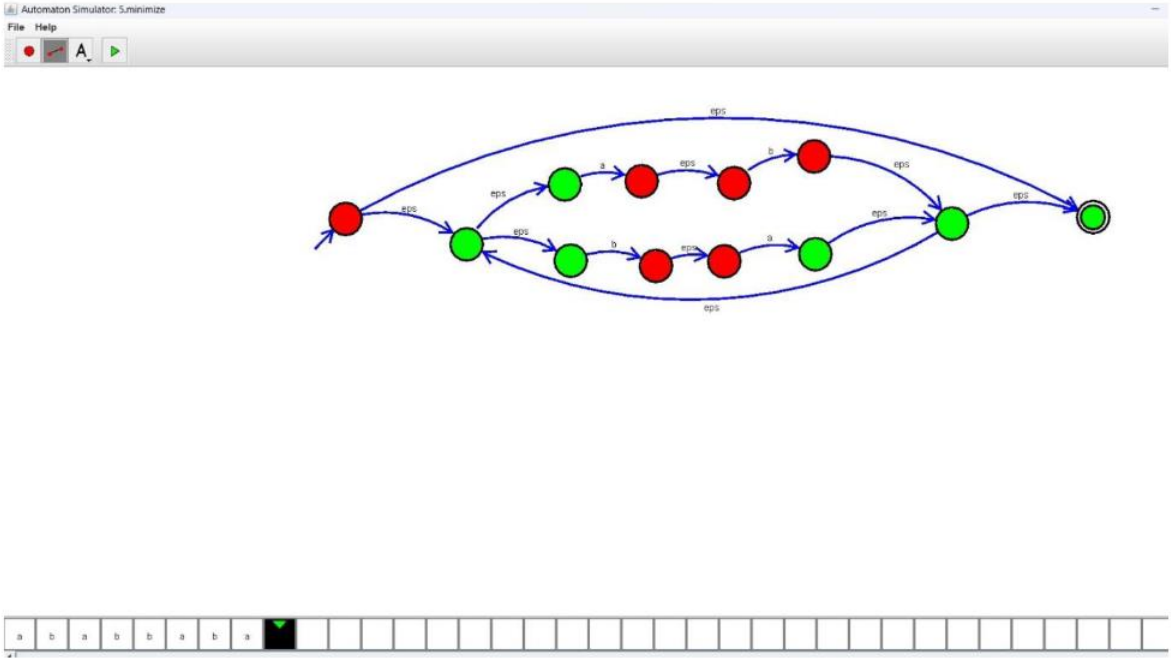


7. Identify the language defined by the r.e:

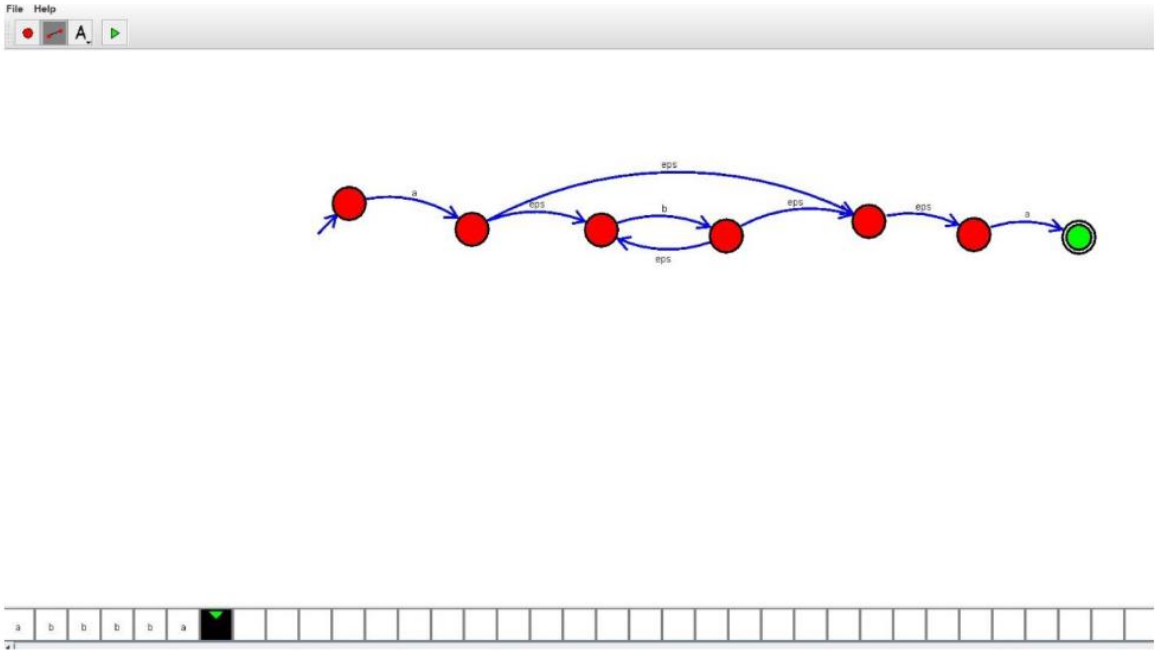
i) (a*+b*)*



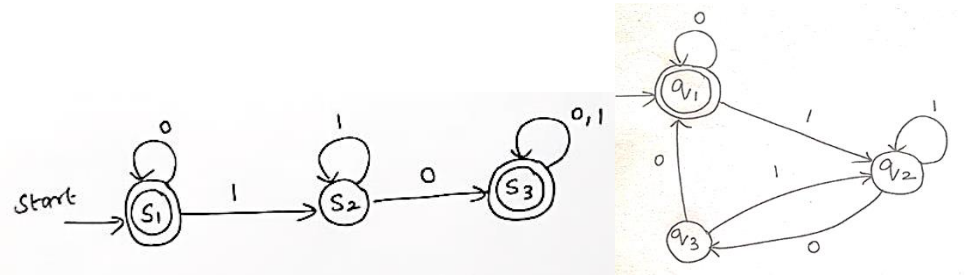
ii) (01+10)*



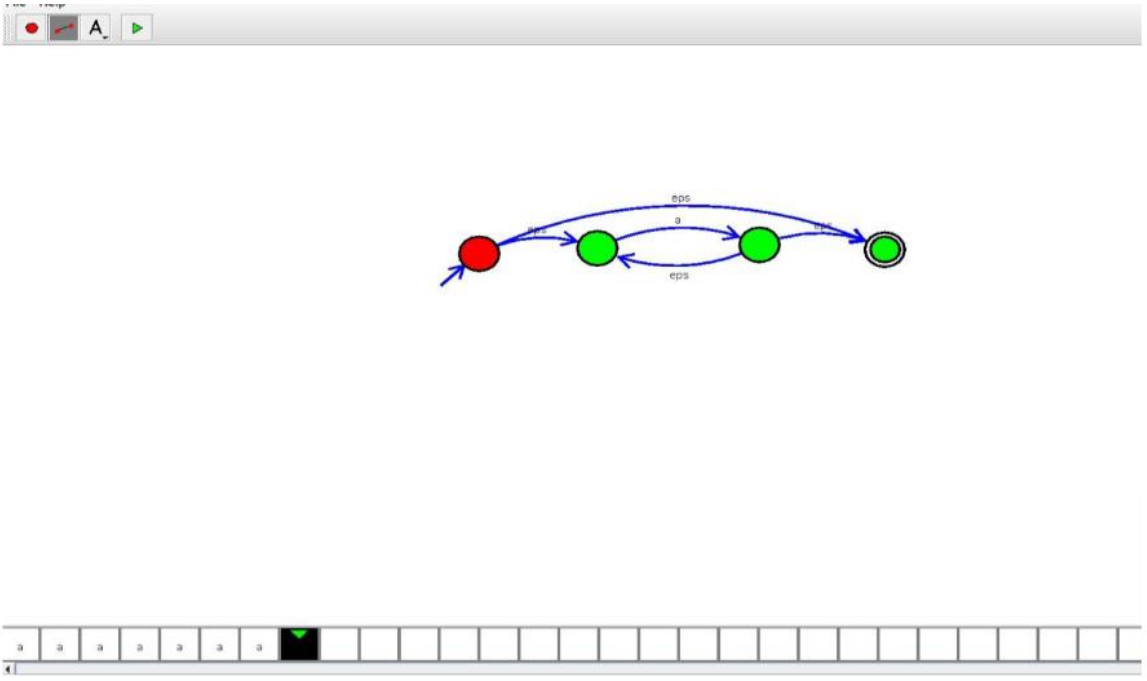
iii) ab*a



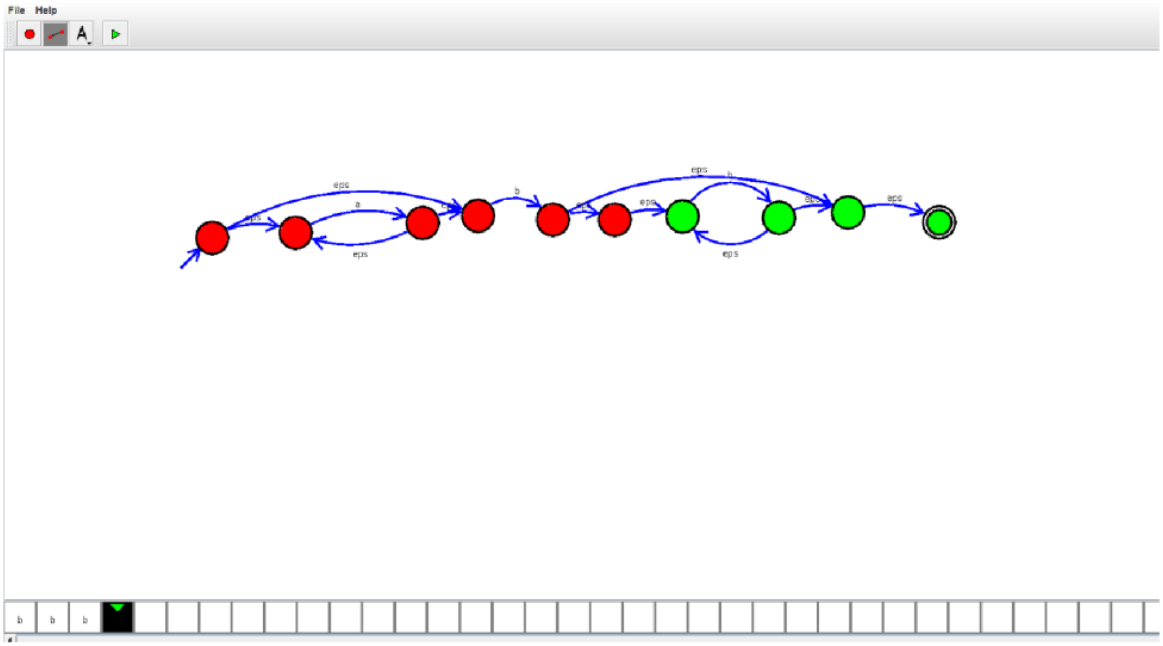
8. Construct r.e. from the DFA given below:



S1: a*



S2: a*bb*



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