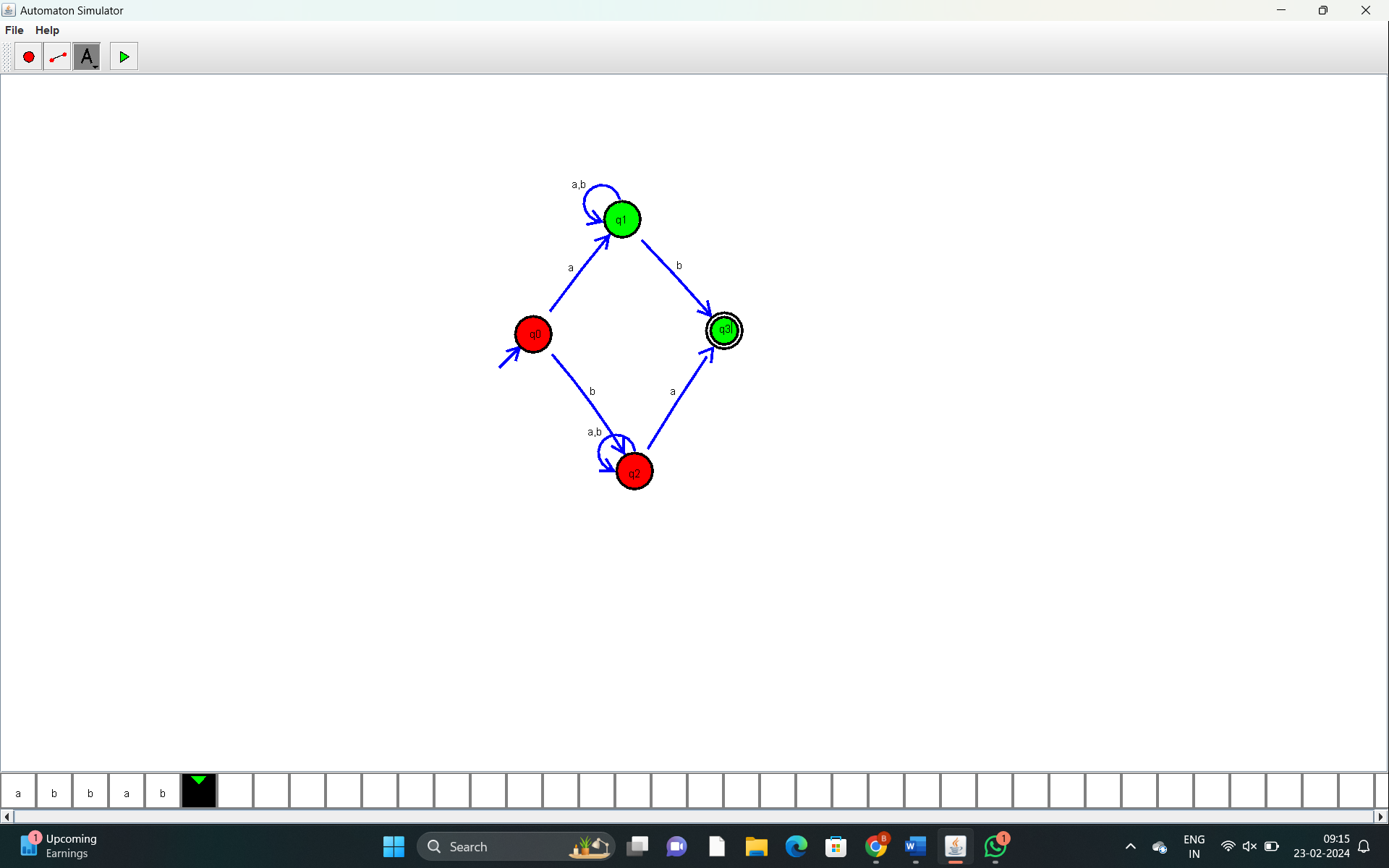
**DAY2**

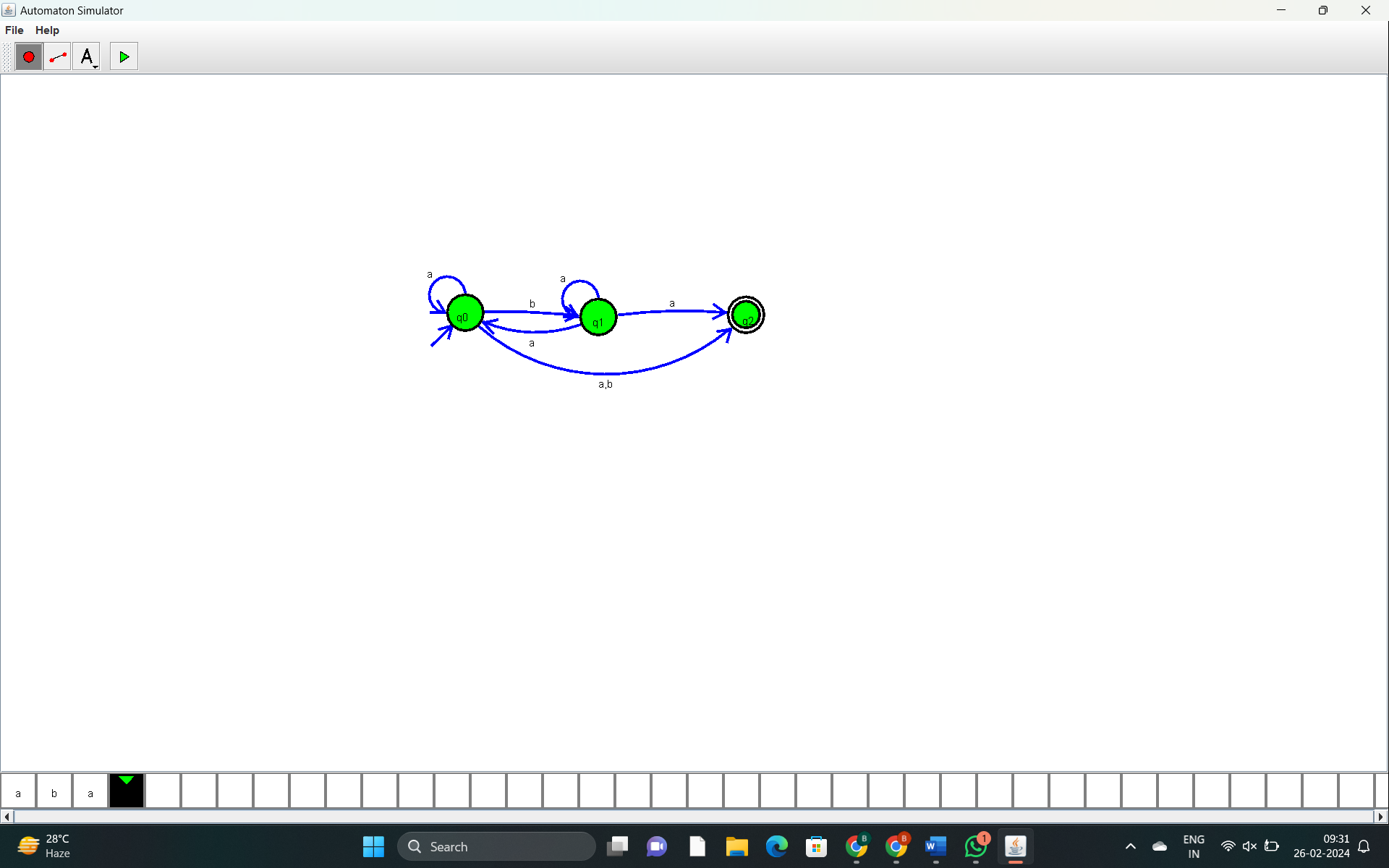
**THEORY OF COMPUTATION**

**PRATICAL SESSION**

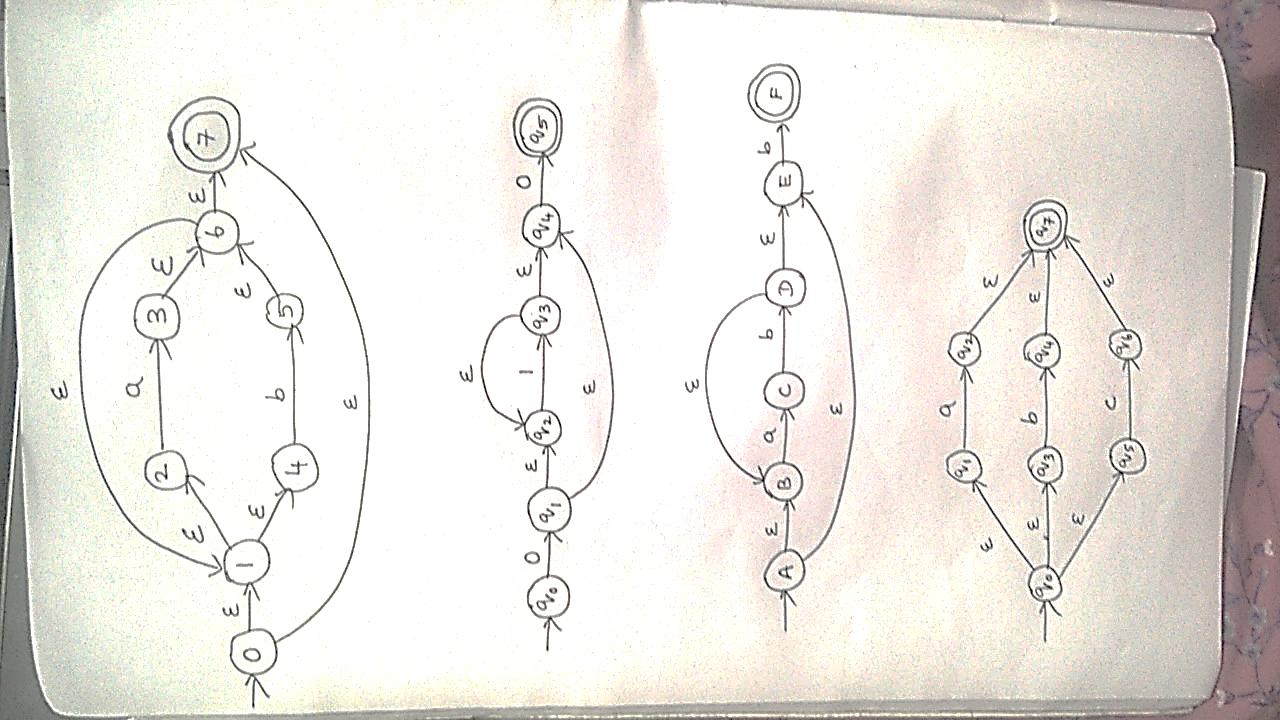
**2.3) Construct an NFA for binary strings that start and end with different digits.**

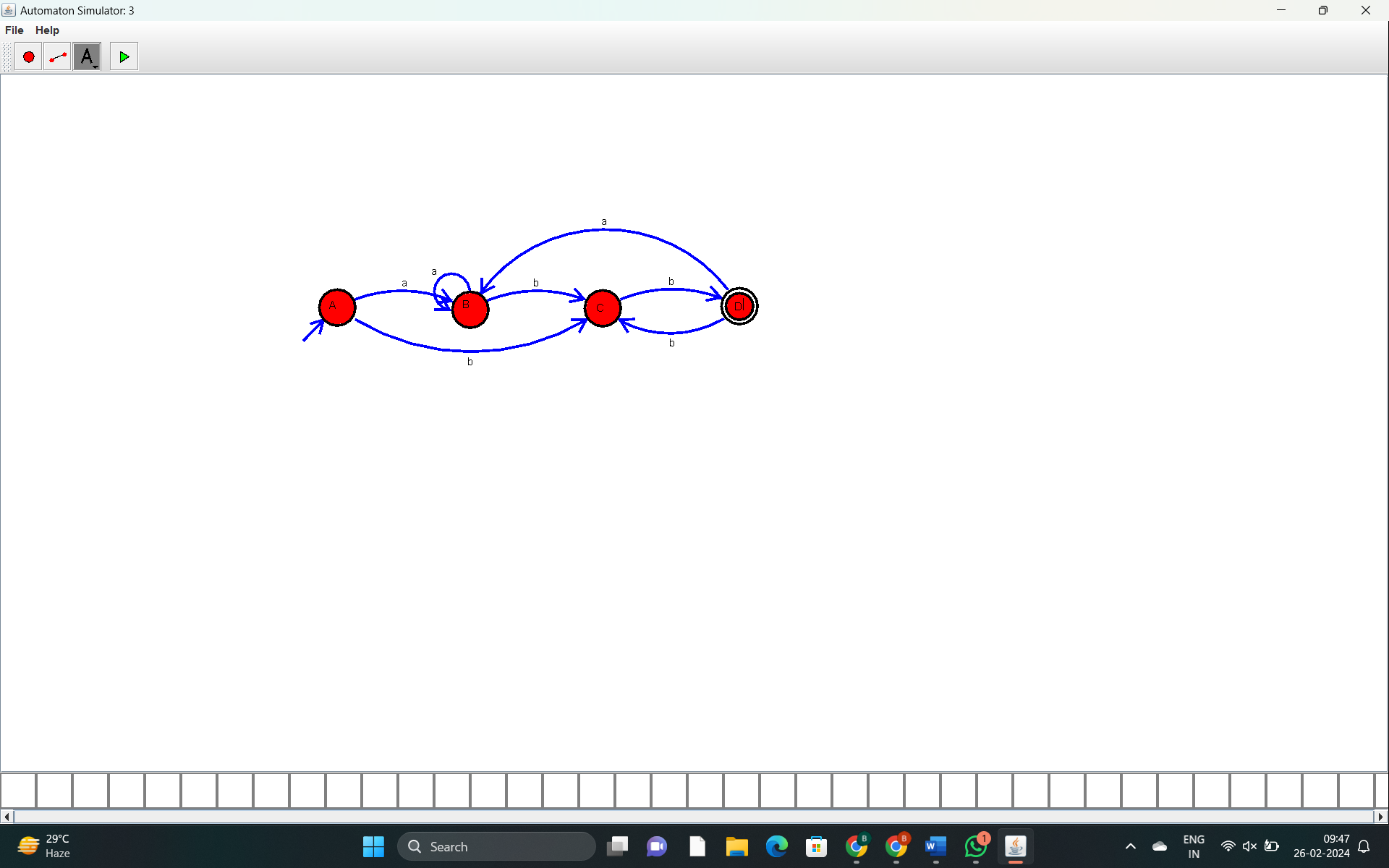


**3. Construct an NFA without ϵ-moves equivalent to the NFA with ϵ-moves given**

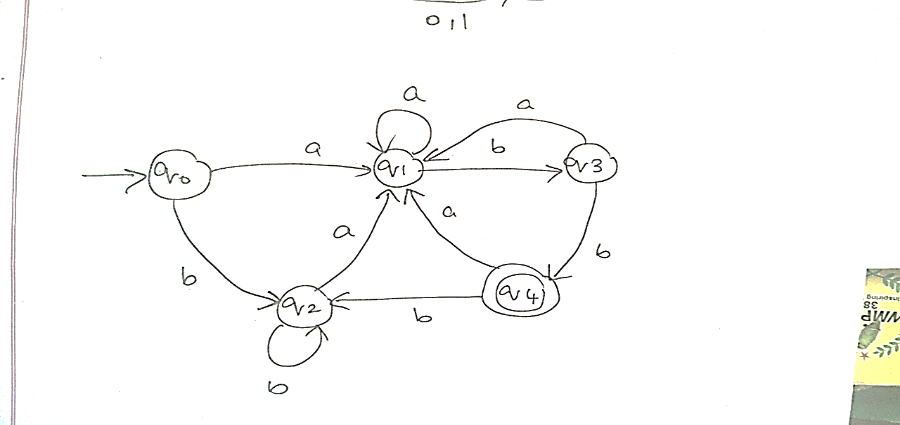


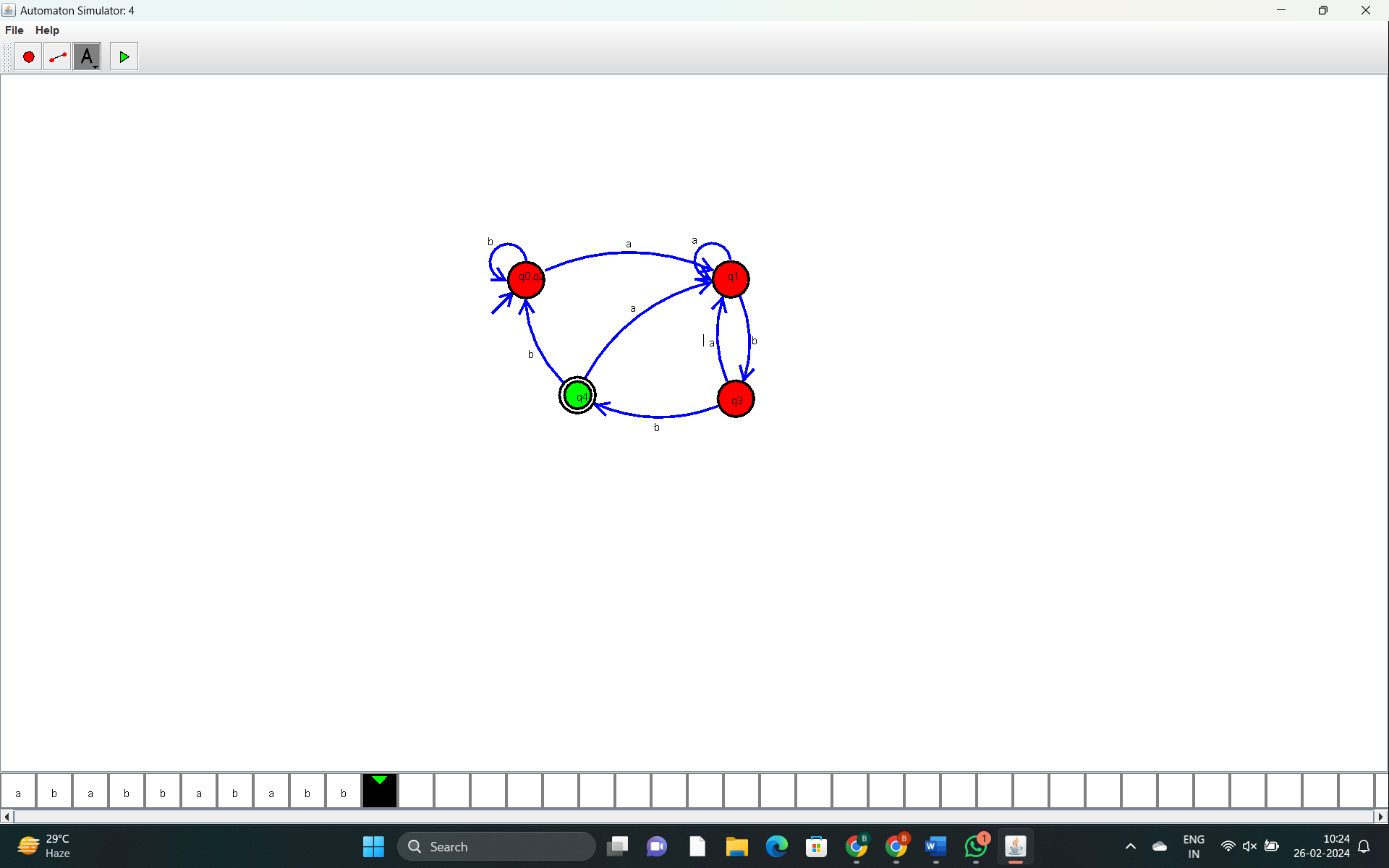
**4. Construct a DFA equivalent to the NFA with ε-moves given below**:





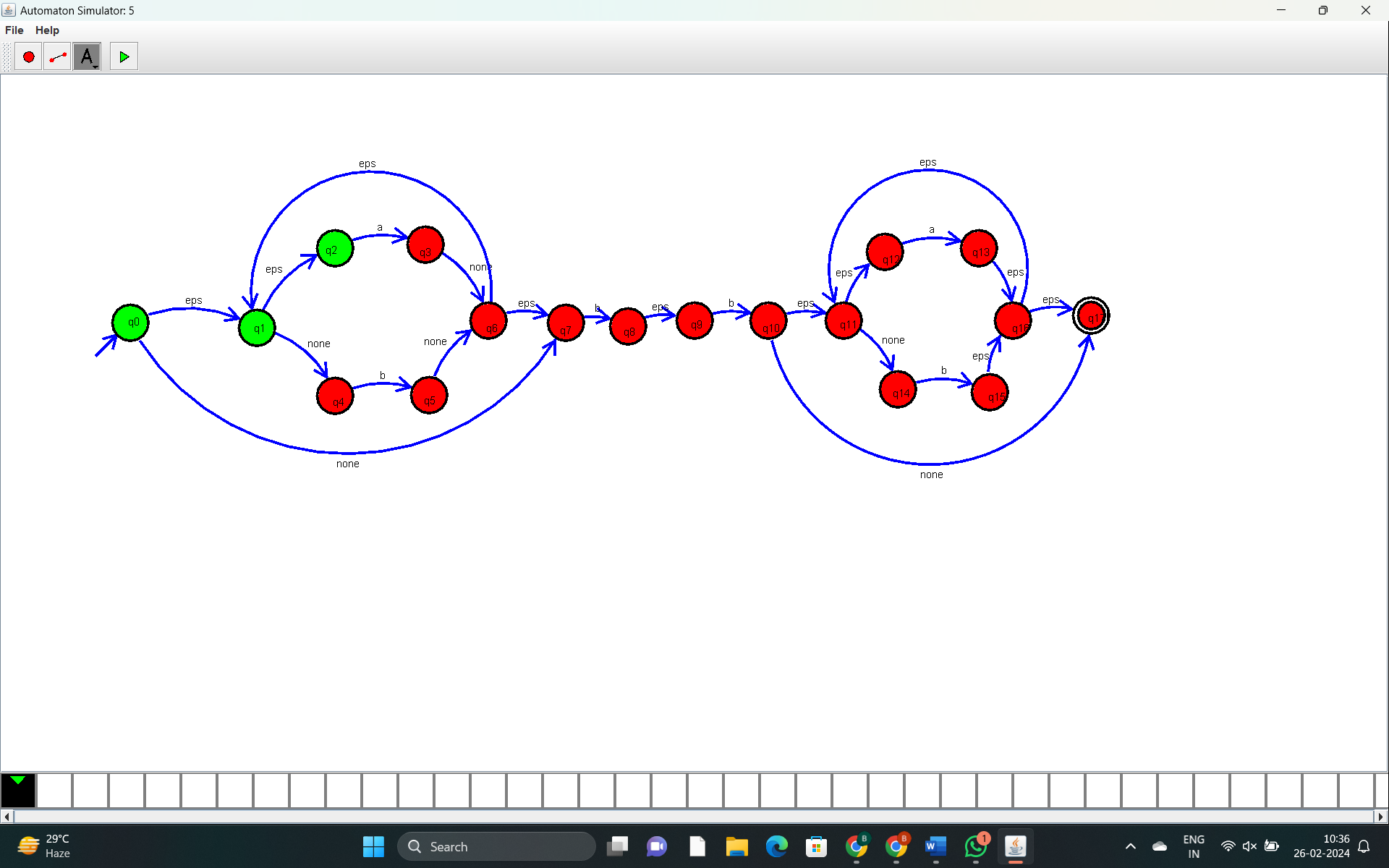
**5.Minimize the DFA given below**:



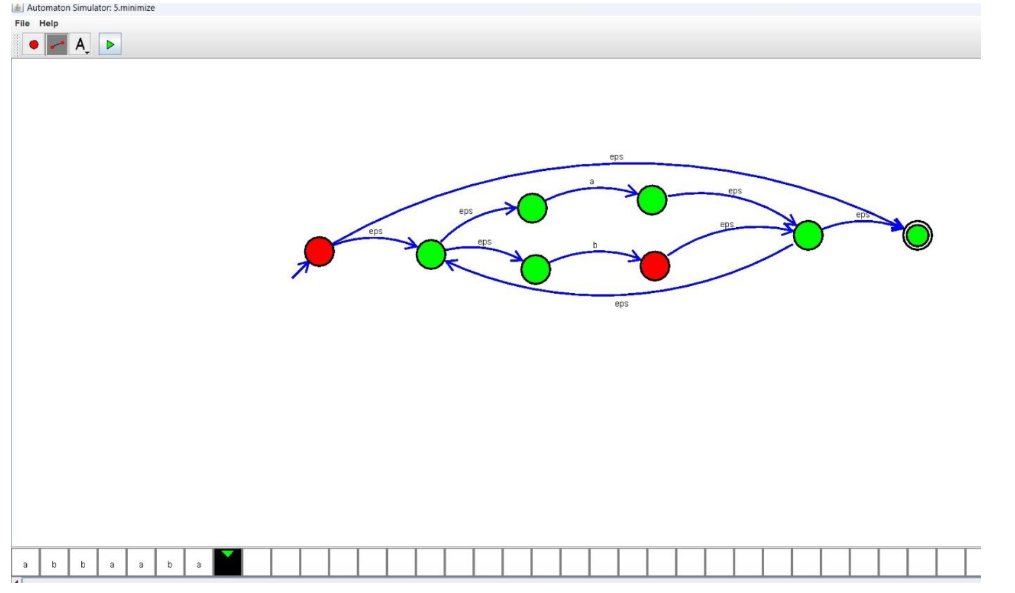


**6.Define r.e. for the following languages**:

1. Set of all strings of a’s and b’s having bb as a substring

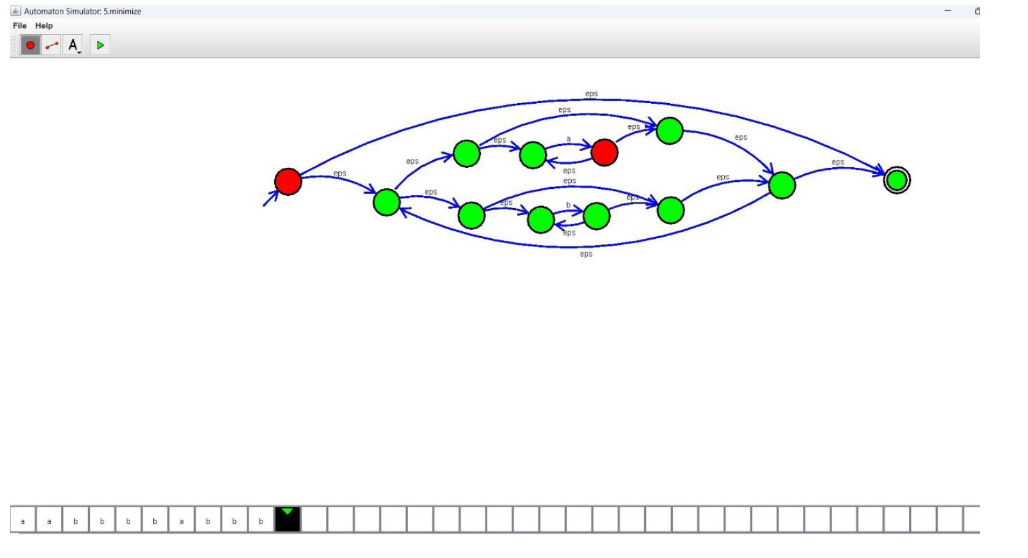


1. Set of all strings that start with a and end with b over 𝚺={a,b}

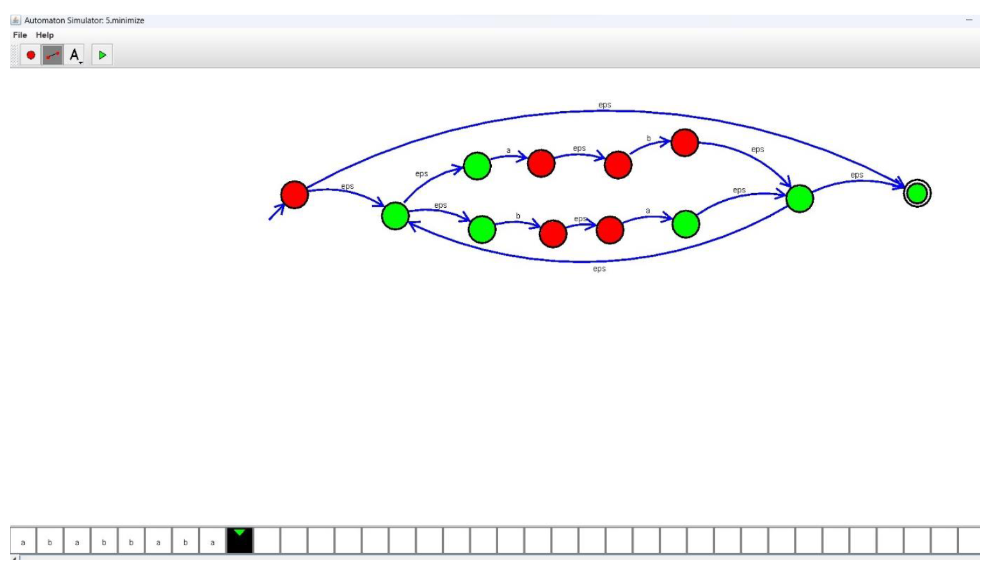


**7. Identify the language defined by the r.e**:

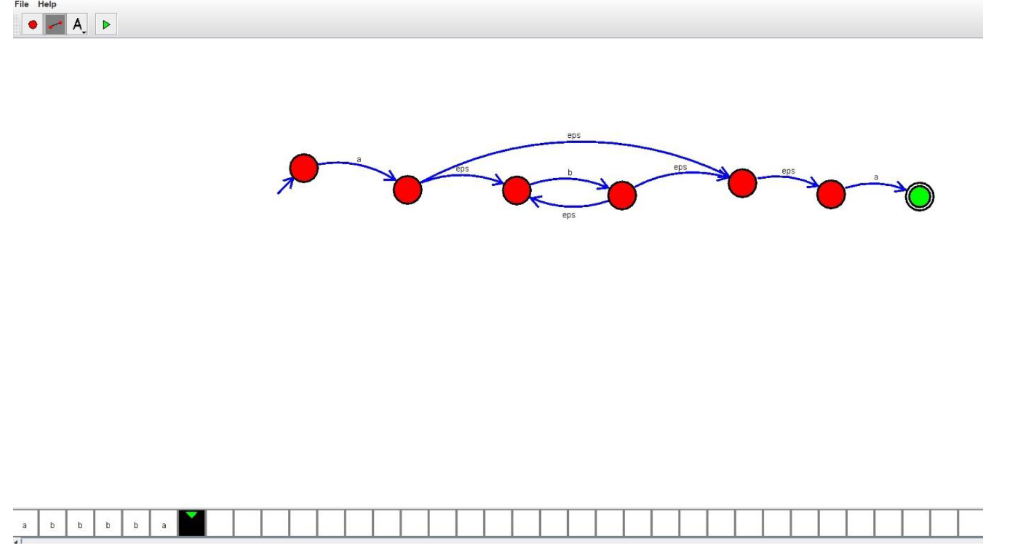
1. (a\*+b\*)\*



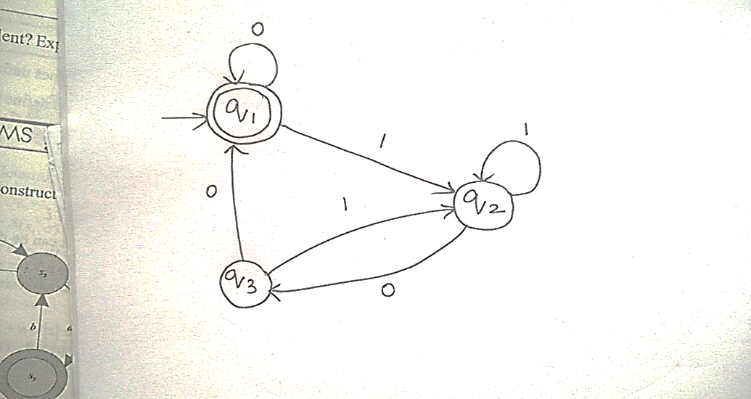
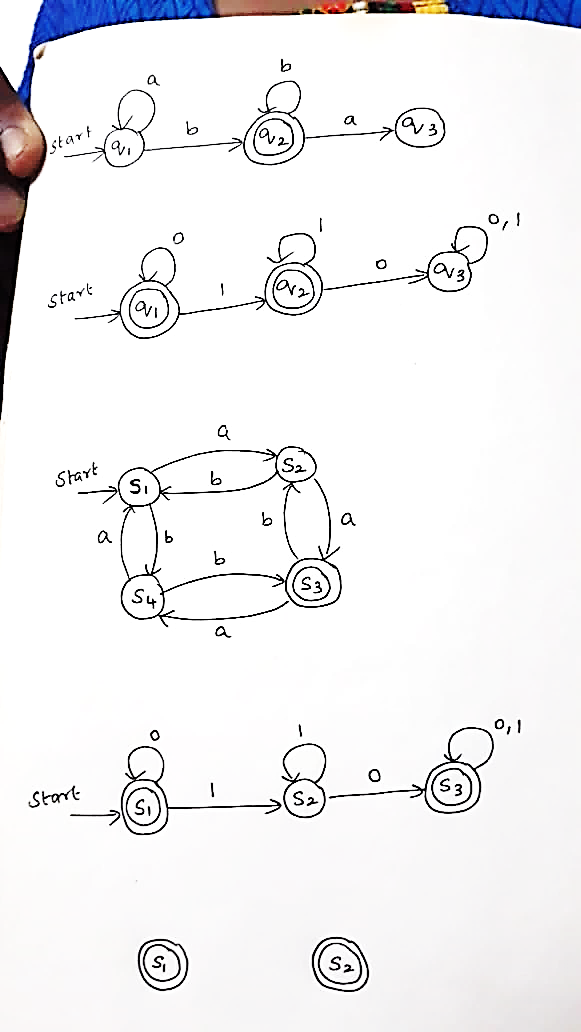
1. (01+10)\*



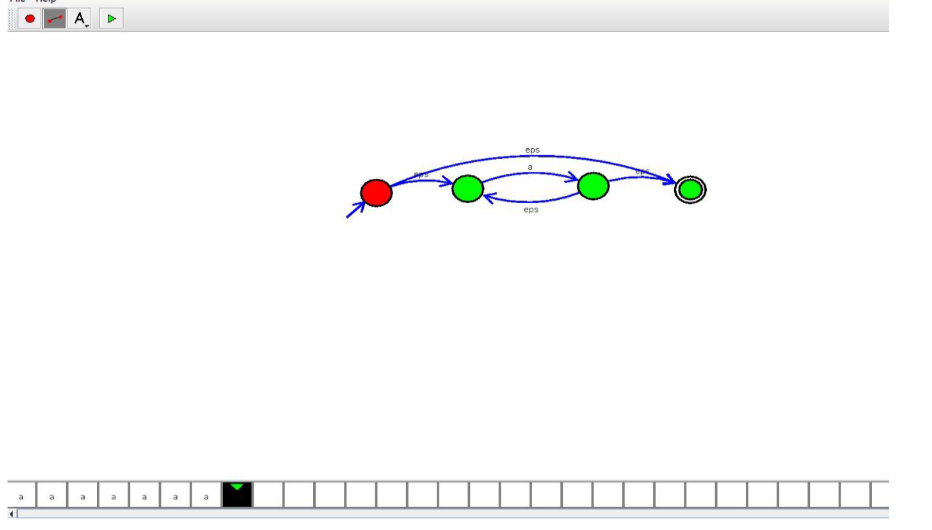
1. ab\*a

****

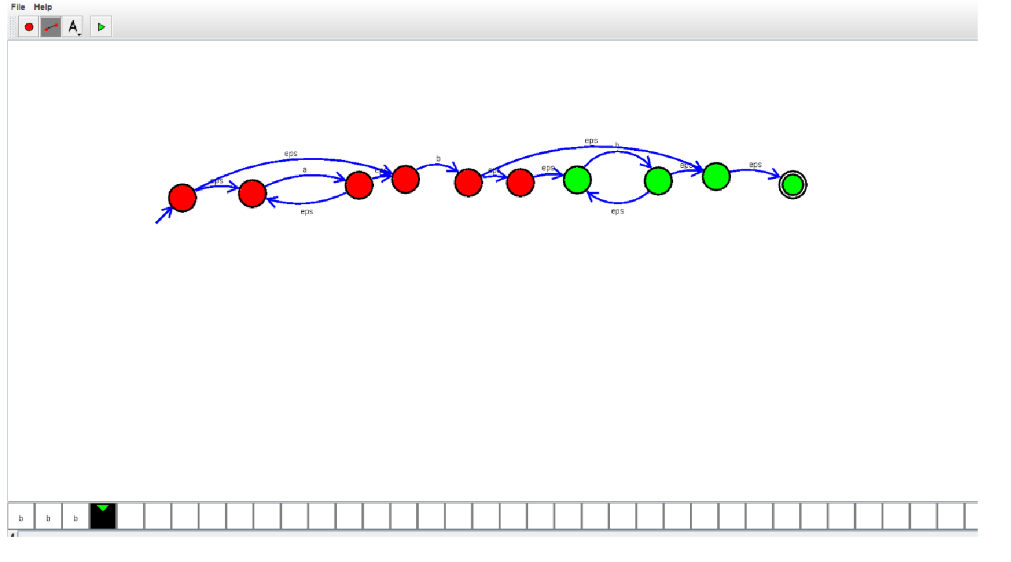
**8. Construct r.e. from the DFA given below:**



S1: a\*

****

S2: a\*bb\*



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

