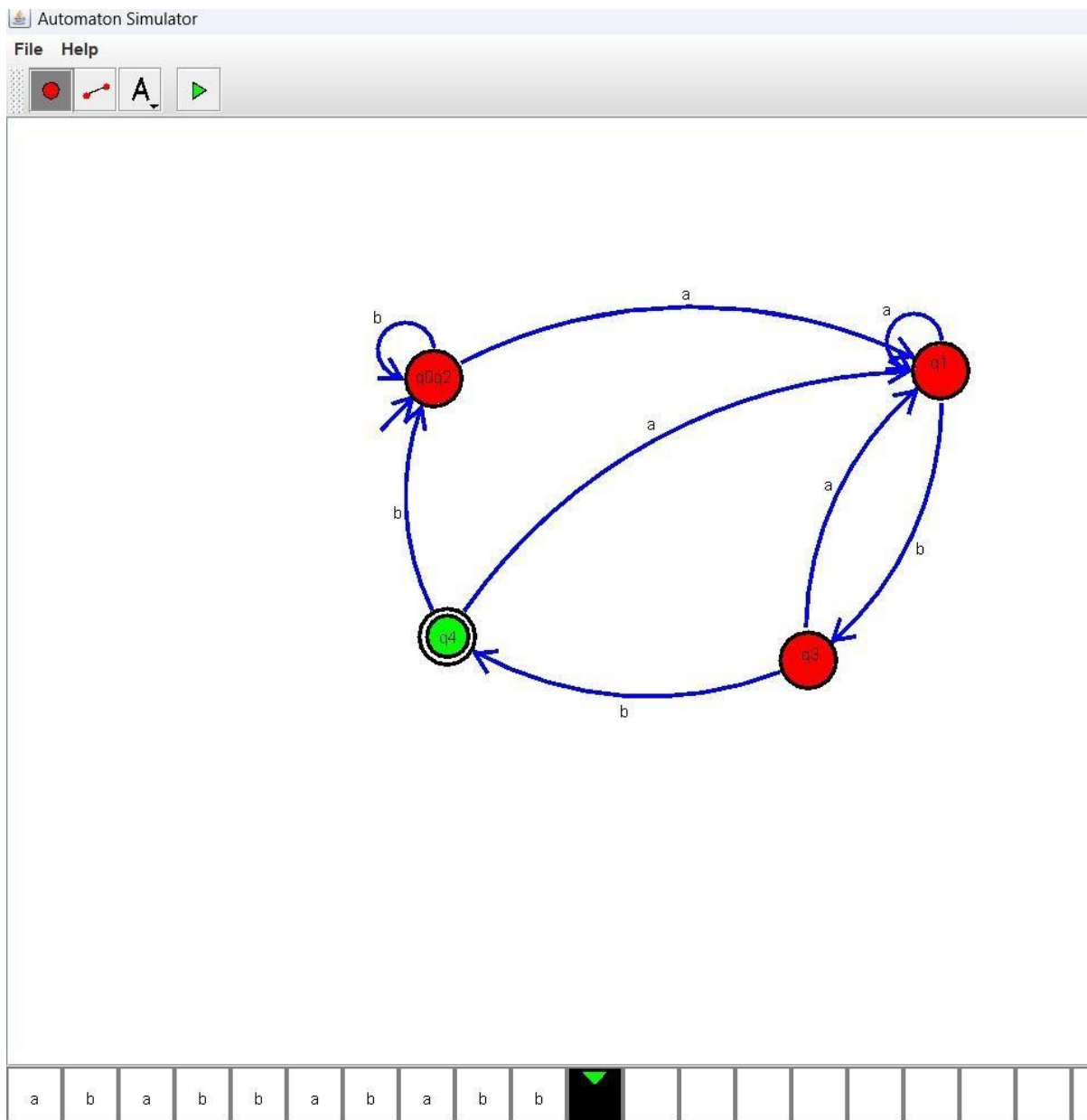
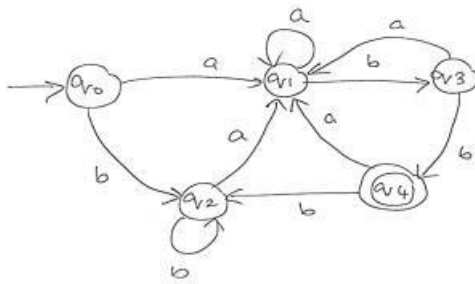
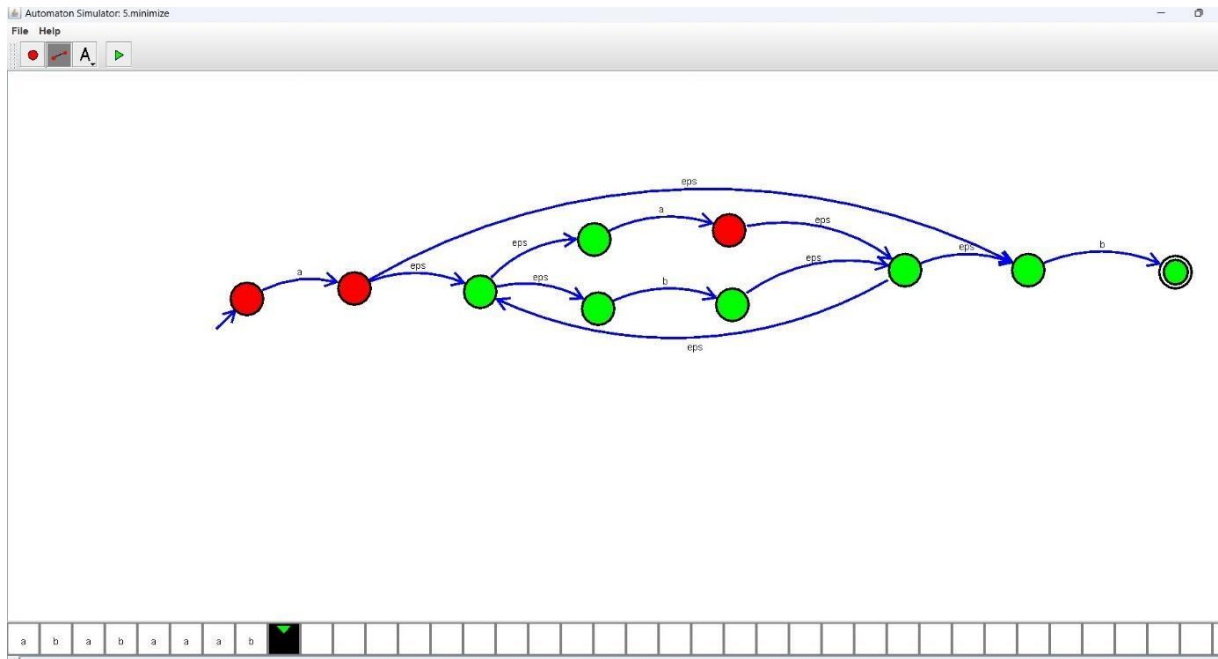


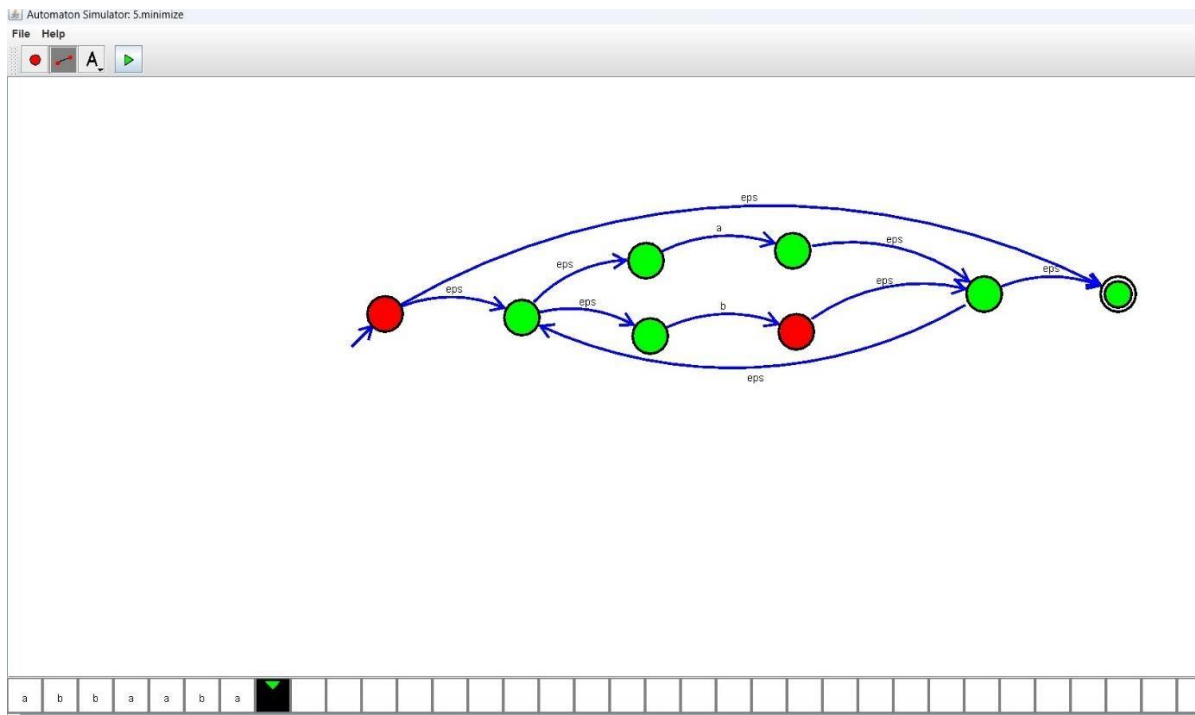
1. Minimize the DFA given below:



2.1 Define r.e. for the following languages:

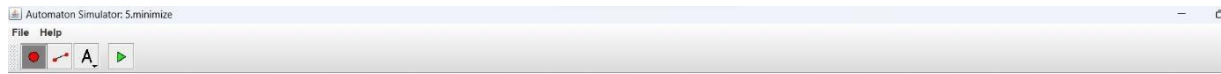


2.2 Identify the language defined by the r.e: $(0+1)^*$



3. Construct NFA with ϵ -moves equivalent to the regular expressions given below:

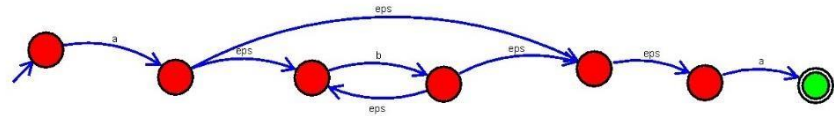
i) $(a^* + b^*)^*$



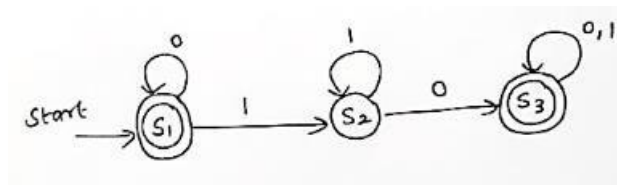
ii) $(01 + 10)^*$



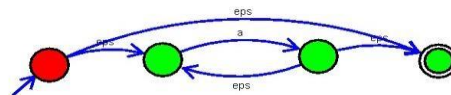
iii) ab^*a



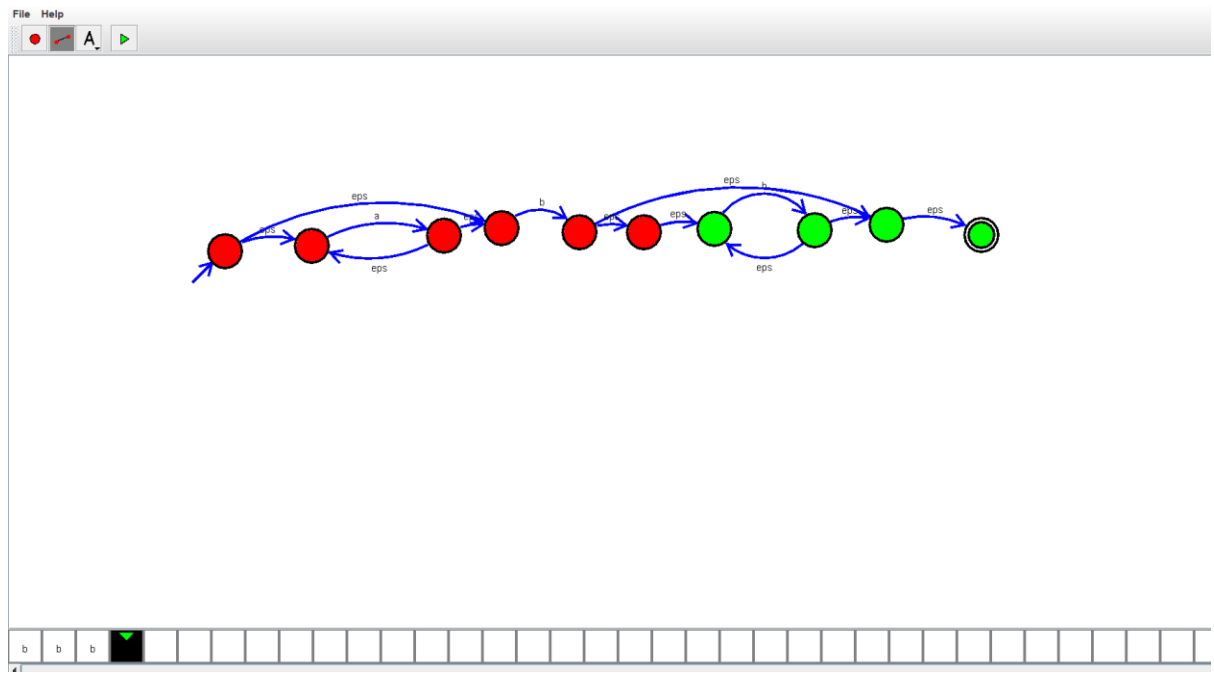
4. Construct r.e. from the DFA given below:



S1: a^*



S2: a^*bb^*



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

