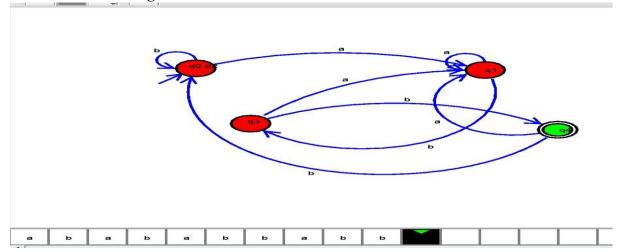
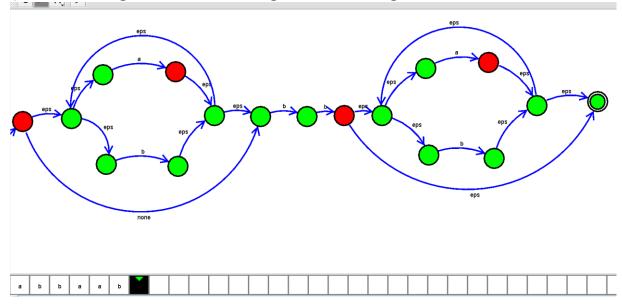
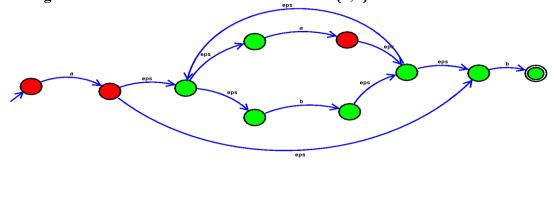
1. Minimize the DFA given below:



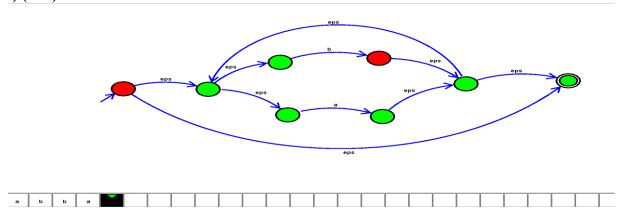
i) Set of all strings of a's and b's having bb as a substring



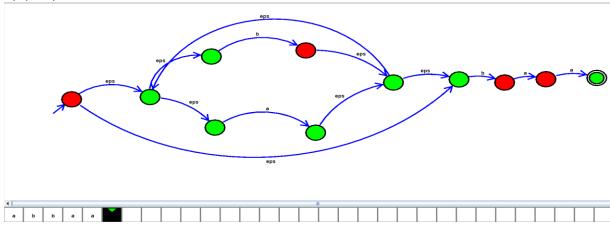
Set of all strings that start with a and end with b over $\mathbb{Z}=\{a,b\}$



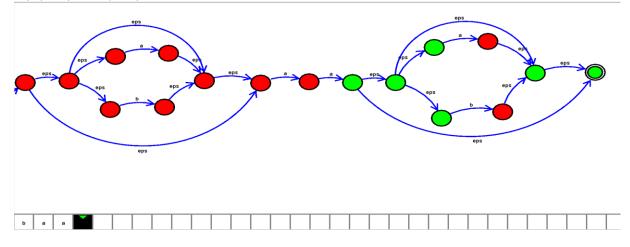
Identify the language defined by the r.e:
i) (0+1)*



ii) (0+1)*011



iii) (a+b)* aa (a+b)*



Construct NFA with $\epsilon\text{-moves}$ equivalent to the regular expressions given below: i) $(a^*+b^*)^*$

