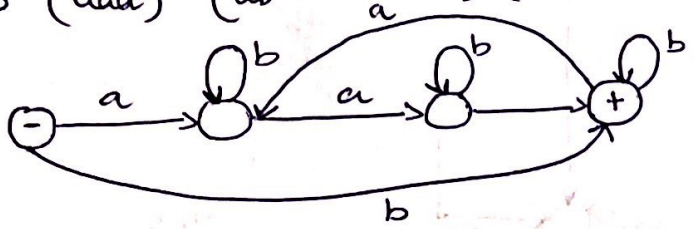
Theory of Automata

Assignment#2

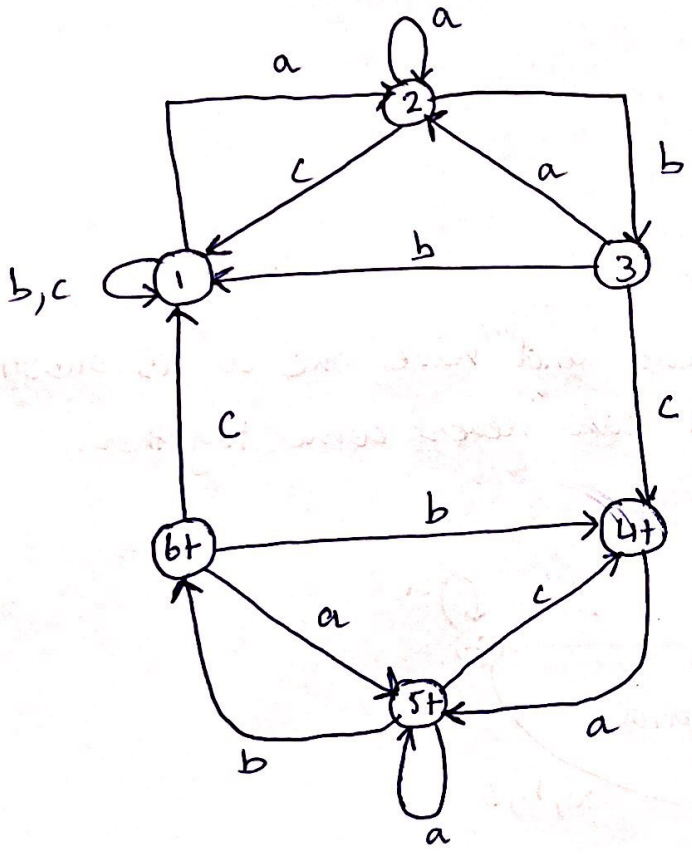
Q1:-

=> $b^*(aaa)^*(ab^*ab^*ab^*)((aaa)^*+b)^*$

=>

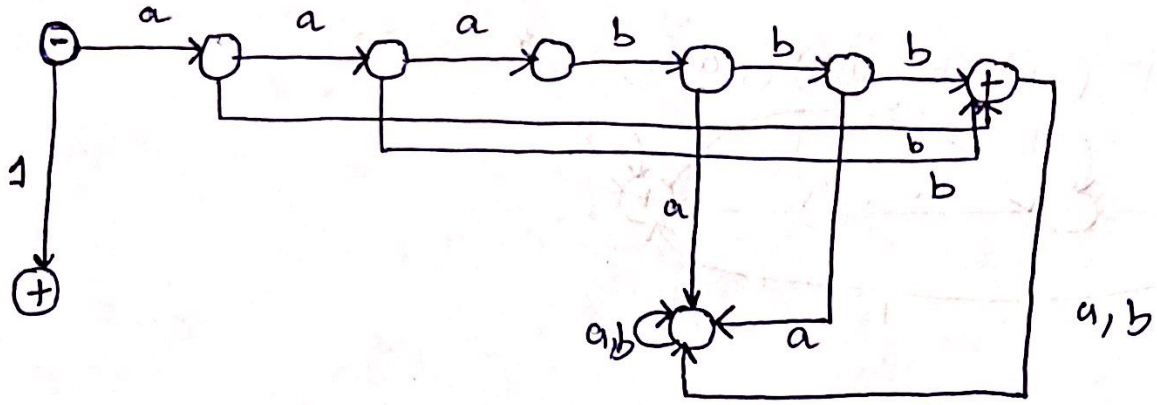


Q2:-



Q3:-

=> {1, ab, aabb, aaabbb}

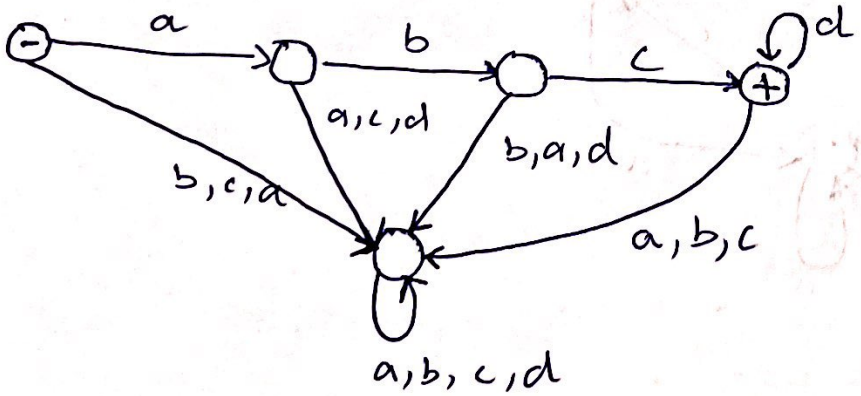


Q4:-

-> $(a+b)(a((a+b)a)^*)$

Should have a or b atleast and have one a as substring in middle and two b's can never come together.

Q5:-



it will accept abcd together where d can be null and can be more than one, on the other hand a,b,c will come at least for one.