

DATE: ___/___/___

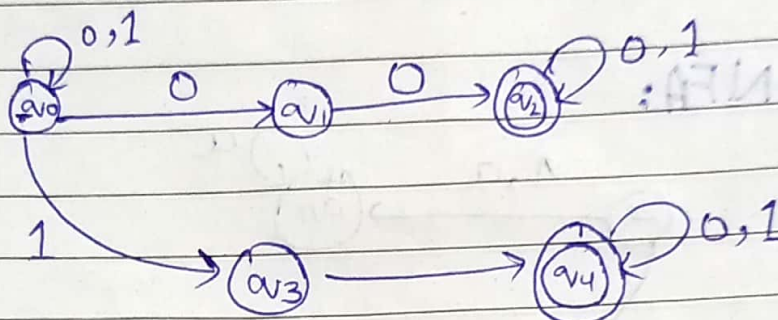
Assignment 4

NIMRA SAFA SP22-BCS-049 THEORY OF Automata

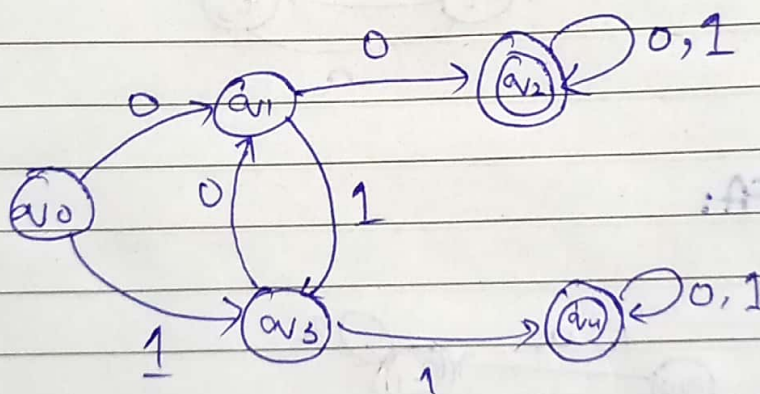
- 1- String that contains 00 or 11 as a substring.

R.E: $(0+1)^*(00+11)(0+1)^*$

NFA:



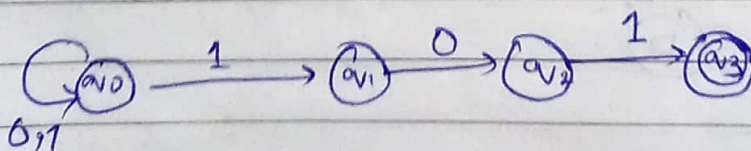
FA:



- 2- Strings that end with 101

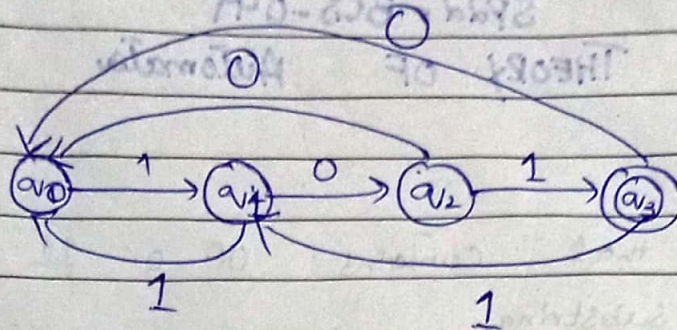
RE: $(0+1)^*101$

NFA:



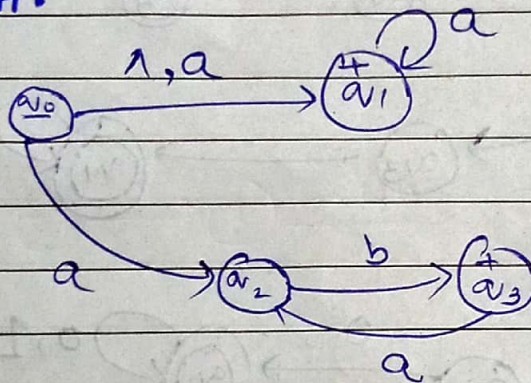
DATE: ___/___/___

FA:

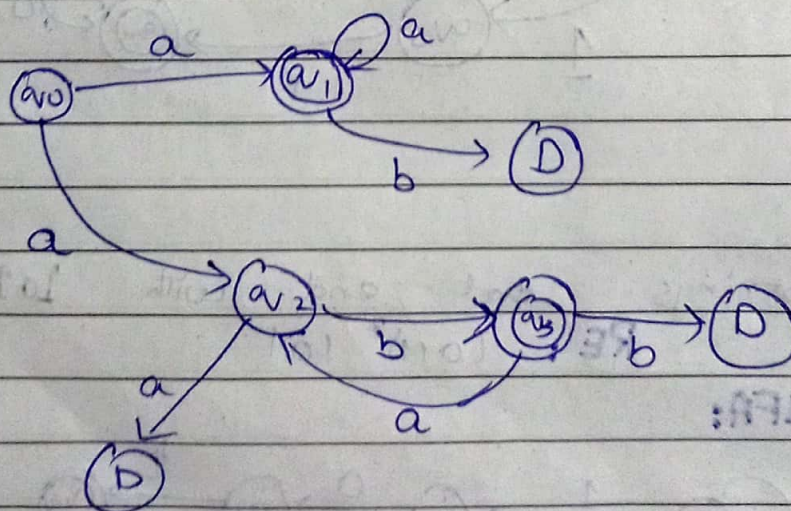


3- $a^+ + (ab)^*$

NFA:



DFA:

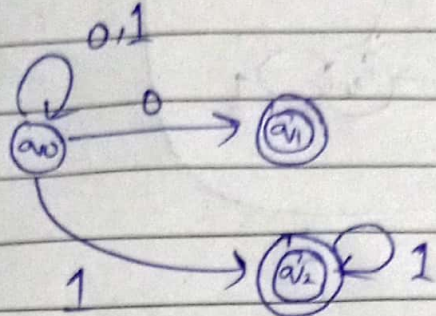


DATE: / /

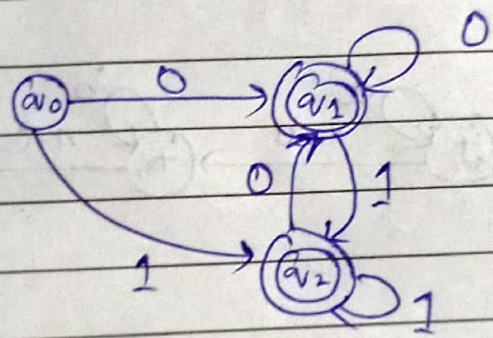
4- last symbol 0 or contain only 1's

R.E: $0 + 1^*$

NFA:



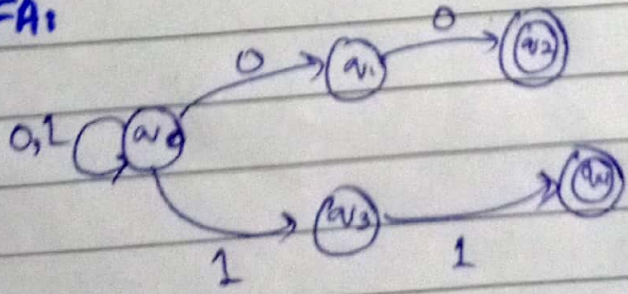
DFA:



5- 00 ~~11~~ 11 at the end of string.

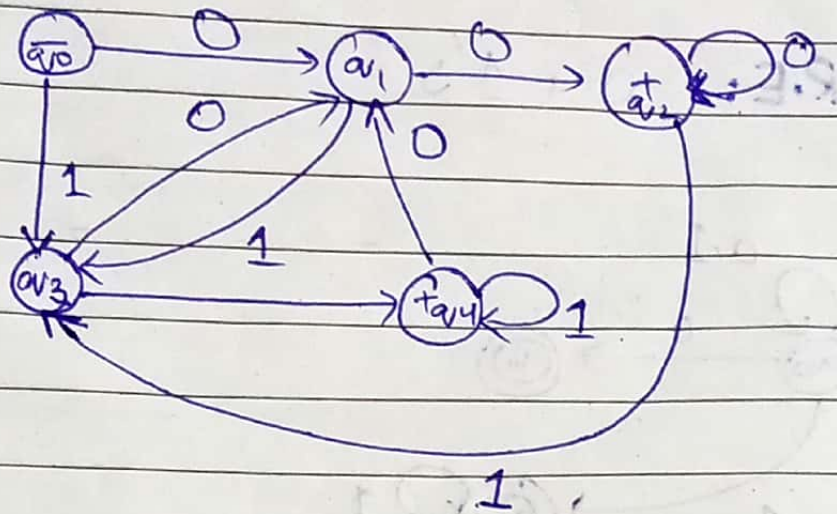
R.E: $(0+1)^* (00+11)$

NFA:



DATE: ___/___/___

DFA:



6- $a^*b^*c^*$

NFA:

