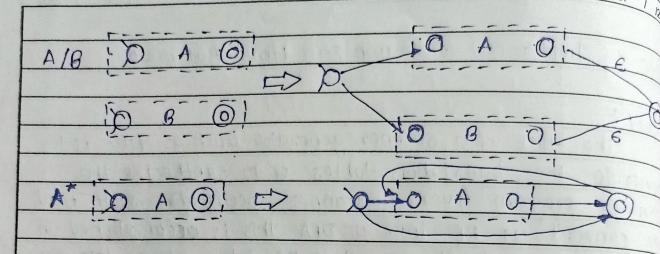
Practical No. 07

Page No.
Class
Roll No.
Date: / /202

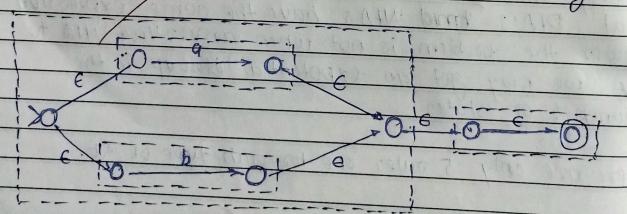
Date: / 1202
Title : 3- Implement Deterministic tinite Automata.
The mone mading a
71 2-
Theory?
The task of a scanner generator such as flex is to
generate the translation tables or to synthesize the
scanner program given a scanner specification so it need.
to convert at RE IND a DFA this is accomplished in
two steps first it convert a RE into a non-determin-
-nistic Anite automation CNFA) and then it convert
the NFA into DFA.
THE FOR THE FIT TO LIEU RESIDENCE FOR THE SHE TO ANY
A NFA is similar to a DFA but it also permits muliple
pundition over the some characters and toundition over E.
1,000.1011101) 0410 1.50
clearly DA's gre a subject of NFA's But it turns out
that DFA's borned NFAs have the same expression
power the problem is not when converting NFA to
power the goodsell is not better blueup in the
prompter of states
number of states
c h lung of elf
There are only 5 rules one for each type of RE.
3 D=3-6)
THE SECTION OF THE PROPERTY OF THE PARTY THE TREETY OF THE PROPERTY OF THE PRO
€ 10-0
A LONG TO THE RESIDENCE OF THE PARTY OF THE
AB IN A O D D A O B O'
12-1
G.P./ G.C.O.E.

Page No.
Class
Roll No.
Date:



the algorithm construct NFA2 with one final state for example the third rule indicates that to construct the NFA for the RE AB, we construct the NFA & For A and which are represented as two boxes with one of and one final state for each box.

for ex. The RE (a1b) C is mapped to the following NA



first we need to handle transition that lead to othe state for free (without consuming rany input) there are the E transition we define the clourte of NFA

Page No. Class Roll No. Date: / /202 now using one or francition for example the node as the set of all the nodes reachable by this aib 916 ab State for enery OFA state labeled by some set : SS, , __ sn3 and for every characters c in the language alphabet you find all the state reachable by 81, Sz.__ orsn wing e amous and you find all the states reachable by 81, Sz.__ orsn by 81, Sz.__ orsn wing the states reachable by 81, Sz.__ orsn together the clouser of the modes. qib b Result: thus the porgoun for imprementing the definite rentled successfully. G.P./ G.C.O.E.J