```
Submittedby
                  Prosunjit Bismes
(@ 01232785)
(RI) - RI R2 | R2 | R
(R2> -+ R2* | R3 | R
 R3
         - t < TERMSYM>
LTERMSYMY - alblc1 lilj
The DFA bor recogniting Num in TL13 is tollowing
                      O 8-9]
           (3) 6-9]
Psen docade:
   State = 'So'
    For each character in given word
       case ...
                  1501 :
             State
                  Case [1-9]:
                       State = '51'
                  Case [0]: State '52'
                  else REPORT ERROR
              State 'si';
                   case [0-9]:
State = 'sz'
                   else REPORT BRROR
              State 152';
                     case [0-9]: sht = 'Sz'
                     else Report ERROR
    Report Success and return NUM.
```

4.

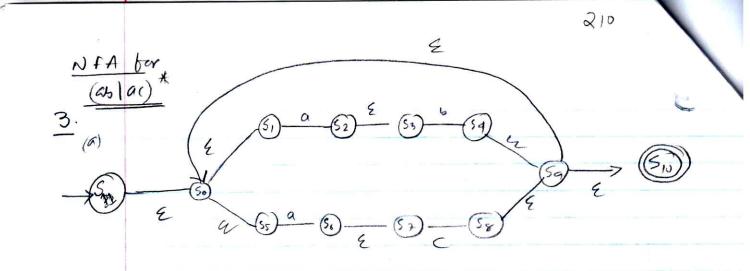
```
1. (0)
       Progream
           var x as int;
var y as bool;
        begin
             x := read Int;
            if Y = true then
x:= X div 2;
                 x := x - 1;
            end;
             While Y <= false do
                  If ( x+Y 1= 100) then
                       x := x * (1+x);
                   else
                       Y % = false;
              end;
              WriteInt x;
         end
```

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```
(b) Program
             VAR ident AS INT;
             VAR Ident AS INT
     begin
             ident ASSAN READINT ;
             If ident ASSGN bool then
                Ident ASSGN Ident OPZ num;
Ident ASSGN Ident OPZ num;
             end;
             while ident op4 boollit do
                  if (ident op's ident op4 num) then
                     ident ASSON ident OPZ LP num - OP3 ident RP;
                  else
                      Ident ASSOIN boolut;
                  end;
             end;
             WRITEINT ident;
     end;
```

Program (C) PROGRAM begin (declarations) END Setement segment rdent As INT VAR Sc (declaration) Statement state ment-3 C VAR Ident INT SC (declarati-> AS LASSIGN +7 State mont · Ident ReadWI ASSEN 16 TEADLY then (State ment a) elle davi) end Kimple (Simple op4 express-7 Ste tonal expressing else sequence term term factor factor So on. ident barliel

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