

ne. API8400 10266 a) leveme: sequence of charectery grouped as one unit 6) token: sequence of charicters that can be generated lexent with and is token can be identifier, keywords, operator and punctuation marky De De De Colon that each leveme takes Riplaryoutonigos (a) tempelity. (23 Tokens are present) return tempin 191 Lexeme 0-50-50 -50 Tokens uorid Keyword multiply letter (letter soligit)* identifien delimeter int Reywort いかりっち identifier letter (letter/digit)* delimiter identifier letter (letter/digit) delimiter delimiter Hi letter (letter I digit se hous identifier. temp delimiter </2 = 1 = 1 > 1 <>1 operator (rel) operator (Arth) 41-111 x.1x 7-11001100 seturn Keyword r->e-st-sur-in delimiter terap 4 4 repeated once are removed

-AD1840010266
3) regular Expression and transtition diagram
as identifien digit > Co-97 letter [a-21-2]
SEQUEL => lotton (lotton I disoit 1th
Tronstition diagram:- Yeller/digit Stort and deler diagram
yetter/diget
-3(1)
(6) Logical operators
(23) (3) (3) (3) (3) (3) (3) (3) (3) (3) (
(6) cogical operators
reger: ANDIORIandior/XOR12212=121515=1===
(In general) 12 lors
CIO CI 20/11/1
5.34.315
Transtition diagram - hospitaling
(2) (2) (3) (6)
The state of the s
17111111111111111111111111111111111111
Municipal Contraction of the second of the s
(c) IIf statement (9(A)x) Reger For simple if statement (9(A)x)
Reoep 1:01 800 17
Transtition diagram for if:
stort (130 - () () () () () () () () () (
1621 Condition Condition

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4) a) Les program torrécognize identifier beyond andnumber The charteest actions # include < stations (10sr . 15. if letse while | int | switch/forkhar & print+c"keyword");} [a-2]((a-2][(0-9])* {joxint+("identifier");} [0-8] * { print("number");} (0)1) H ·* {Printf("invalid"); 3 The House of House the House 1.4. mainy yylexc); (ugra lai, Elegra rado) macris returno; (10年中中。[1]8日10100年=(1)2片 int yywapu (1)00011212 (or) Store in 84mison table 120 11000001114 171000 #includ estatio. hy not stational properties # include "Ylob. 6"; 1 (10)138 extern char toyyoul; int 11:0; 4.3 7.7. 8 "int' { x4f; seturn INT? "Char" Enet; return CHAR; & [a-3A-2-Ia-3A-20-9] fyyual=gytext; if (n=0) freturn is; y return 023 1.4. main () gy lep()

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6) 1.8 Balanced Paran thesis
                                       Coal monthise
      #includecstatio-h)
                                 CA. eji 1719 . o 1011 150 17 14
      int i=0;
      open "F"
if for sel would surricht for the ans printer without it
      Echoel Eiter Francis Monde (16.5) [2.0)
                            Eilering Minner J. Derong J. De. 00]
      f closely [i--; &
                               Filmort ( conscion); ?
       it (ico)
          printf ("Parenthesis Motch");
                                                () (1) (T)
       3
      ソ・ソー
                                             (1) x 21 4 F
     main (chart arge[], int argv)
                                            (O (10) 11) 5
        yyin = fopen (arg & [1], "rep");
                                        ()dorcath full
        yylex();
         if (i==0).
                                     ((0))
          printf("AU parantherary matched 1); 15012
      int yywxap(void)
                                   # included estate his
                                 THE LUNCTINGLE " ATOR. 2, 1
      return 1;
                                 Extoro au main alingal!
```

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10) Remove connerts
    7.8
    7.7
   Start \/\*
   enal
   1* For Multi line comment 1/
    1/1/(.*); /* single line commatry
    2 stort 3. * send y 1° multiline comment*/
   int main (int k, char **argau)
       gyin=-lopen ("input:txt"" " "")
       44 out= fopen ("output.c", "w");
       yylex();
       return 0;
     To add line number before each line in afile
        inf line-number=1;
     line *In
     {line}{printf("x.rod x.8", line_numberre, yyterd); }
     7.4.
    int gywaplify
     ([]upus radio tat and (interpretation to interpretation)
    E extern File *yyin;
      gyin=fopen=("input.E", "5");
       yyler();
       returno;
```