

AIM

Design and implement a lexical analyzes for given language using a and the lexical analyzer should ignore redundant space tobs and new hores.

PROGRAM

#include < stdio.h>
#include < stdlibih>
#include < stolibih>
#include < storing.h>
#include < ctype h>

Int is Key word (char key(7) ?

11 Function to test whether it is a keyword or not

11 Returns 1 if time else 0

Upre defined list

Char Esquords [32](10] = {

"auto", "break", "case", "char", "count", "continue", "difalle

"do", "while", "else", "if "enam", "donble " "do " "extern"

"flat", for", goto", "if", 119 th ong", "segister"

"refurn", "short", "signed", "sized", "static", "stonet",

"switch", "typedet", "curron", "unsigned", "void", "void", "volalile"

"while"

// herear search of key words

for (int 120; 123; 1+t) ?

if (stremp (key, keywords[i]) ==0) {

return 1;

```
is Operator (char op) ?
  11 Function to test operator or not
 11 Returns 1 if tome else 0
 char . operators[] = 11/4-+= % 11/4
 for (int 120) ix + ; it + ) }
      if (operators(i) == op) setun 1;
return 0;
void main ) {
   char ch[20];//buffer
  int 120;
  11 input -apat file
 FILE " in = fopen ("input. fxf", "AL");
 FIRE tout = fopen ("autput fot, "ev");
11 If file creation/ read failed.
 if (in == NUCL // out == NULC) }
        point f (" File opening failed");
        exit (o);
```

seturn of

```
MAnalysis
while (coff fgets (in)) == EOF) {
      if ( is Operator (ch(i)) == 1) }
             printf ("%c is OPERATOR In", chti]);
            front f (at % oc is OPERATOR In', ch (i));
            confinue;
      } else if ( [dbod nom (chti])) }
        y It character is not alpha-num
      A means its either space, delimiter, comma. We now
       Whave to fest the buffer.
            if (is Keyword (ch[i]) = = 1) }
                  promtof ("%s ois KEYWORDIN", ch);
                  front f (out, "%s is KEYWORD)", ch)
           } else if (stylen (ch) > 0) {
                 point f ("%s is IPENTIFIER(", ch);
              front of (But, "%s is /DENTIFIER)", ch);
         120;
        confiner?
      qese 3
           iet
                    fclose (in); fclose (out);
} point f ("In")/
```

INPUT. $t \times t$ int. a, b; a = b + 10;

OUTPUT. txt

int is KEYWORD

a is IDENTI HER

b is IDENTIFIER

a in IDENTIFIER

= is OFERATOR

b is IDENTIFIER

+ is OPERATOR

(4. 1. 4.2. 3 do lot.

10 is I DENTIFIER