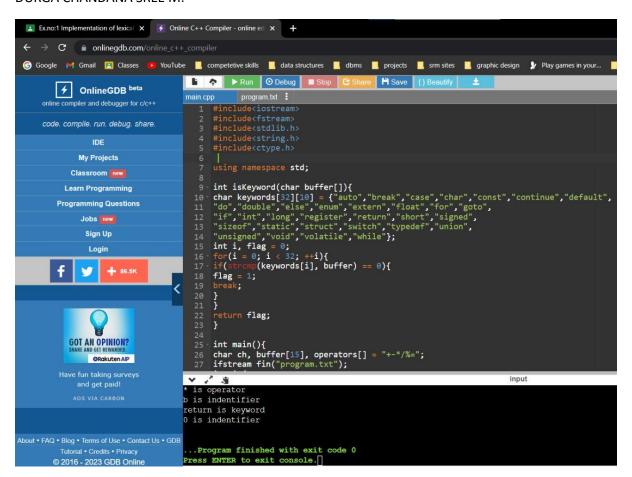
DESCO 23 EXPERIMENT-1 LEXICAL ANALYSER Faculty. DO: 2 Hour: 9210 AIM: To write a program to impliment a lenical analyser in c/c++. Lenical Analyser: It reads the characters from source cade and convert it into tokens. ALGORITHM: 1 Start. 2. Get the input program from the file program.txt 3. Read the program line by line and check if each word in a line is either a keywood, identifier, math operators, logical operation, numerical value or others 4. for each lemene oread, generate a token as: a. If linene is a keyword, then token is keyword. b. K it is identifier, then token generated is printed on the console as identifier. c. In the same way math operator, logical, numerical values and other symbols are sprinted on the console. 5. The stream of tokens generated are dispayed in the console butfut. 6. Stop the console.

```
PROGRAM CODE
In C++
#include < is ostneam >
#include < fstreams
# include < stdlib. h>
# Include < string. h>
# include < c type. h>
 using namespace std;
int iskeyword (char buffer[]) ?
char keywords [32][10] = { "auto", "break", "case", "chor",
"tonst", "continue", "default", "do", "double", "else", enum",
 "entern", "float", "for", "goto", "if", "int", "long",
 " register", " vieturn", "short", "signed", "sizeof",
 "Statue", "Switch", "typeof", "union", "void",
"unsigned", "volatile", "while" ?;
 int i, flag=0;
 for ( i= 0; i<32; ++i) }
  it (stremp (keywords [i], buffer) == 0){
  flag = 1;
 break;
 34
 return flag;
 int man () §
 Char ch, buffer [15], operators [] = "+-*/1/=";
 itstream fin ("program. txt");
 int i', j=0;
  if (!fin.is_open()) {
  cout << "error while spening the file in":
```

```
program, txt
#include <iostream>
using namespace Std;
 int main () }
 int a, b, c;
    b= 25;
    c= a * b;
    return o;
          o is industifier
```

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```
O Debug
                                         H Save
          ▶ Run
                          Stop
                                 C Share
            program.txt
main.cpp
     #include<iostream>
     using namespace std;
  3 int main(){
          int a, b, c;
          a = 15;
          b = 25;
          c = a * b;
  8
          return 0
  9 }
Y / 3
* is operator
b is indentifier
return is keyword
0 is indentifier
```

```
enit (0);
while (! fin. eof ()) }
· ch = fin, get ();
for (i=0; i<6; ++i) {
      if (ch == operators [i])
    cout << ch<< "is operator in";
it (is alum (ch)) {
buffor [j++] = ch;
else if ((ch == 1 1 11 ch == 1n') 22 (j1=0)) {
buffer [j] = "10";
j= 0's
 if (is kyword (buffer) == 1)
cout exbuffer << "is begind In";
 elx
 Cout < < buffor < < " is irridentifier \n";
 4
fin, close ();
 return o;
RESULT: Hence the imprimentation of lemical analyzer
      in c++ was compiled, enecuted successfully.
```