10/9/20 Week-5 Thursday Consider the input expression and identify the tokens in expression C=a+++++b c=+ta + ++b #include (stdioih) #irclude (String. h) #include (Stalib. h) 1. 6 velop [</>|>|=]+ letter [a-zA-z-] digit [0-9] id Eletter 3 (Eletter 3 Edigit) number Edigit 3+ op [+/1-1 */1]+ Str [1"] Eletter 5+ [1"] "int" | "float" | "cher" | "for" | "while" | "do" | "continue" | "break" | "clef" | "return" | "if" | "then" | "elif" | "switch" {printf ("In keyword -1.5 encountered", yetext):3 Evelop's Epronty ("In Relational Sperator 4.5 encountered", yetert) Isbrig printf ("Instring to encountered," # yytext); 3 Pop's [printf("Inoperator of s encountered", yytext)))

2103 {printf ("In Identifier 1's encountered", yytext): 4
Anumbers Sprints ("In Number 1's encountered", yytext): 3

int main() ? gyles() vetum 0)

OUTPUT

C= att + ++b

Identifier c encantered

Relational operator = encountered

Identifier a encountered

Operator ++ encountered

aparator + encountered

Operator ++ encountered

Identifier 6 encantered

C= ++a + ++b

Identified c encountered

Relational Operator = encountered

Operator ++ encountered

Identifier a encountered

+ encountered Operator

operator of encantered

Identifier 6 encountered

```
srihari@LAPTOP-AJMTFS87: ~/compiler_design/week5
                                                                                                                                                                                                            srihari@LAPTOP-AJMTFS87:~/compiler_design/week5$ cat q1.1
#include<stdio.h>
#include<string.h>
#include<stdlib.h>
relop [<|>|=]+
letter [a-zA-Z ]
digit [0-9]
id {letter}({letter}|{digit})*
number {digit}+
op [+|\-|*|/]+
str [\"]{letter}+[\"]
"int"|"float"|"char"|"for"|"while"|"do"|"continue"|"break"|"def"|"return"|"if"|"then"|"elif"|"switch" {printf("\nKeyword %s encountered",yytext);}
{relop} {printf("\nRelational Operator %s encountered".vvtext);}
{str} {printf("\nString %s encountered",yytext);}
{op} {printf("\n0perator %s encountered",yytext);}
{id} {printf("\nIdentifier %s encountered",yytext);}
{number} {printf("\nNumber %s encountered",yytext);}
int main(){
        yylex();
       return 0;
srihari@LAPTOP-AJMTFS87:~/compiler design/week5$ ./a.out
 = a++ + ++b
Identifier c encountered
Relational Operator = encountered
Identifier a encountered
Operator ++ encountered
Operator + encountered
Operator ++ encountered
Identifier b encountered
 = ++a + ++b
Identifier c encountered
Relational Operator = encountered
Operator ++ encountered
Identifier a encountered
Operator + encountered
Operator ++ encountered
Identifier b encountered
```

Type here to search

^ **■** □ □ □ (1)) (ENG 13-09-2020

Identify the tokens in griven input. def fin: vetrom non els: return n print 3 #include < Storo. 5) # include (5 tring, h) # include (stalls is) relap [<|>|=]+ Letter [a-ZAZ] digit [0-9] ia { letter3 (Eletter3 | Edyit 3)* number Edigits+ op [+1 1-1*1/]+ Str ["] [letter] +["] Spechar [:()] "int" "float" | "chor" | "for" | "while" | "do" | "print" | "def" | "return" ! "if" | "else" | "elif" | "then" { printf(keyword 1's encontared In", gytext);) Evelop3 Eprints "Relational garator 1.5 excountered in gytest) 18073 [Printf ("string As encontered In", yytext); 3 2 op 3 [prints (operator & sencoluntered, gytext);)

Sid & Sprintfl' Identifier is encountered In", yytext); 3 Enumber 3 printf ("Number 1.5 concentered bi", yytest): 3 Epichar) I printif ("Spenal character 1:5 encantered bi"cystent) ·f4. ent main () {

sylexco. veturn 0)

OUTAUT

def f(n): Reyword def encountered Identifier of encountered Special character (encountered Identifier & encountered Spear (haracter) encountered Spenal Character: encountered

计 双江1: Keyword if encountered Identifier is encantered Relational Operator >= encountered Number 1 encountered Special character: encountered return nex

Keyword veturn encountered Identifier a encountered Operation * encountered Identifier & encounting

else:
Identifier else encountered
Special Character: encountered
return or
Keyword Preturn encountered
Adentifier or encountered

print 3
Keyword print encountered
Number 3 encountered.



