PROGRAM 9

WRITE A LEX CODE TO FIND IS THE INPUT IS VALID KEYWORD OR NOT.

CODE :-

```
%{

#include<stdio.h>

%}

%%

auto|else|long|switch|break|enum|register|typedef|case|extern|return|union|char|floa
t|short|unsigned|const|for|signed|void|continue|goto|sizeof|volatile|default|if|static|w
hile|do|int|struct|_Packed|double {printf("Reserved Keyword");}

.* {printf("Not a Reserved Keyword");}

%%


int main()

{

printf("Enter the input ");

yylex();

return 0;

}

int yywrap()

{

return 1;

}
```

PROGRAM 10

WRITE A LEX CODE TO FIND POSSIBLE TOKEN IN C PROGRAM.

CODE :-

```
%{
#include<stdio.h>
int n = 0 ;
%}
%%
"while"|"if"|"else|return" {n++;printf("\t keywords : %s", yytext);}
"int"|"float" {n++;printf("\t keywords : %s", yytext);}
[a-zA-Z_][a-zA-Z0-9_]* {n++;printf("\t identifier : %s", yytext);}
"<="|"=="|"="|"++"|"-"|"*"|"+" {n++;printf("\t operator : %s", yytext);}
[(){}|, ;]    {n++;printf("\t separator : %s", yytext);}
[0-9]*"."[0-9]+ {n++;printf("\t float : %s", yytext);}
[0-9]+ {n++;printf("\t integer : %s", yytext);}
. ;
%%
int yywrap()
{
return 1;
}
int main()
{
yylex();
printf("\n total no. of token = %d\n", n);
}
```

PROGRAM 11

WRITE A LEX CODE TO FIND POSSIBLE TOKEN IN C PROGRAM USING FILE HANDLING.

CODE :-

```
%{
int n = 0 ;
%}
%%
"while"|"if"|"else|return" {n++;printf("\t keywords : %s", yytext);}
"int"|"float" {n++;printf("\t keywords : %s", yytext);}
[a-zA-Z_][a-zA-Z0-9_]* {n++;printf("\t identifier : %s", yytext);}
"<="|"=="|"="|"++"|"-"|"*"|"+" {n++;printf("\t operator : %s", yytext);}
[(){}|, ;]    {n++;printf("\t separator : %s", yytext);}
[0-9]*"."[0-9]+ {n++;printf("\t float : %s", yytext);}
[0-9]+ {n++;printf("\t integer : %s", yytext);}
. ;
%%
int yywrap()
{
return 1;
}
int main()
{
extern FILE *yyin;
yyin=fopen("input10.txt","r");
yylex();
printf("\n total no. of token = %d\n", n);
}
```