#### EXP NO -2

# DEVELOP A C PROGRAM TO ANALYZE A GIVEN C CODE SNIPPET AND RECOGNIZE DIFFERENT TOKENS, INCLUDING KEYWORD, IDENTIFIERS, OPERATOR AND SPECIAL SYMBOLS

#### AIM:

To develop a C program that analyzes a given C code snippet and recognizes different tokens, including keywords, identifiers, operators, and special symbols.

## **PROGRAM: TOKEN.C**

```
#include
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           char code[1000],word[50];
char keywords[11][10]={"int","float","double","char","void","if","else","while","for","return","printf"};
int i=0,j=0,k,iskeyword;
printf("Enter C code snippet:\n");
fnets(code si=2f( ));
#include
int main(){
           int 1=0,]=0,k,1skeyword;
printf("Enter C code snippet:\n");
fgets(code,sizeof(code),stdin);
while(code[i]!='\0'){
         if(isalnum(code[i])||code[i]=='_'){
                                   word[j++]=code[i];
                       }
else{
                                   if(j>0){
                                              word[j]='\0';
                                                                                                %s\n",word);
                                                                       break;
                                              }
if(!isKeyword){
    if(isdigit(word[0])){
        orintf("Consta
                                                                                        stant: %s\n",word);
                                                           }
else{
                                                                       printf("Identifier: %s\n",word);
                                   if(code[i]=='+'||code[i]=='-'||code[i]=='*'||code[i]=='/'||code[i]=='='||code[i]==">"){
    printf("Operator: %c\n",code[i]);
                                   if(code[i]=="("||code[i]==")"||code[i]=="{"||code[i]==";"||code[i]==";"){
    printf("Special symbol: %c\n",code[i]);
```

```
}
i++;
}
return 0;
}
```

### **OUTPUT**

```
kamali@Kamali:~$ ./a.out
Enter C code snippet:
float x=a+b;
Keyword: float
Identifier: x
Operator: =
Identifier: a
Operator: +
Identifier: b
```

RESULT:  Thus the above program reads a C code snippet, tokenizes it using space, tab, and newline as delimiters, classifies each token as a keyword, identifier, operator, or special symbol based or predefined lists, and prints the recognized tokens along with their types.  KAMALI KA - 220701118	
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