Expno.2

Design a lexical Analyzer for given language should ignore the redundant spaces, tabs and new lines and ignore comments.

```
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
#include<ctype.h>
int isKeyword(char buffer[]){
char keywords[32][10] = {"main", "auto", "break", "case", "char", "const", "continue", "default",
"do","double","else","enum","extern","float","for","goto",
"if","int","long","register","return","short","signed",
"sizeof", "static", "struct", "switch", "typedef",
"unsigned","void","printf","while"};
int i, flag = 0;
for(i = 0; i < 32; ++i){
if(strcmp(keywords[i], buffer) == 0){
flag = 1;
break;
}
}
return flag;
}
int main(){
char ch, buffer[15], operators[] = "+-*/%=";
FILE *fp;
int i,j=0;
fp = fopen("3lex_input.txt","r");
if(fp == NULL){
printf("error while opening the file\n");
```

```
exit(0);
}
while((ch = fgetc(fp)) != EOF){
 for(i = 0; i < 6; ++i){
 if(ch == operators[i])
 printf("%c is operator\n", ch);
 }
 if(isalnum(ch)){
 buffer[j++] = ch;
 }
 else if((ch == ' ' | | ch == '\n') && (j != 0)){
 buffer[j] = '\0';
 j = 0;
 if(isKeyword(buffer) == 1)
 printf("%s is keyword\n", buffer);
 else
 printf("%s is identifier\n", buffer);
 }
}
fclose(fp);
return 0;
}
```

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main is keyword int is keyword a is identifier b is identifier c is identifier c is identifier c is identifier e is operator b is identifier e is operator c is identifier d is identifier e is operator c is identifier d is identifier e is operator c is identifier d is identifier c is identifier c is identifier d is identifier c is identifier c is identifier			
Process exited after 0.01293 seconds with return value 0 Press any key to continue.			