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| **Roll No.** :3545 **Date of Performance: -** |
| **Title :Lexical analysis Date of Checking: -** |

#include<stdio.h>

#include<ctype.h>

#include<stdlib.h>

#include<string.h>

int isKeyword(char buffer[]);

int main()

{

int i=0,j=0;

char ch,buffer[15],operator[]="+-\*/%=",separator[]=";,.:[]{}()";

FILE \*fp;

fp=fopen("/home/admins/3634/test.txt","r");

if(fp==NULL)

{

printf("error opening file\n");

exit(0);

}

while((ch=fgetc(fp))!=EOF)

{

for(i=0;i<6;i++)

{

if(ch==operator[i])

printf("%c is operator\n",ch);

}

for(i=0;i<10;i++)

{

if(ch==separator[i])

printf("%c is separator\n",ch);

}

if(isalnum(ch))

{

buffer[j]=ch;

j++;

}

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 indentifier\n", buffer);

}

}

fclose(fp);

return 0;

}

int isKeyword(char buffer[])

{

char keyword[32][10]={"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","union",

"unsigned","void","volatile","while"};

int i,flag=0;

for(i=0;i<32;i++)

{

if(strcmp(keyword[i],buffer)==0)

flag=1;

}

if(flag==1)

return 1;

else

return 0;

}