

### 3) Program to recognize and count the number of identifiers in a given input file.

```
%{
#include<stdio.h>
int id=0;
}%
letter [a-zA-Z]
digit [0-9]
id {letter}({letter}|{digit})*
%%
if|else|while|dowhile|for|int|void|break|continue|char|double|struct|printf|scanf
{;}
{id} {id++; ECHO; printf(" :is identifiere \n");}
. ;
%%
int main(int argc,char **argv)
{
FILE *f1;
if(argc>1)
{
f1=fopen(argv[1],"r");
if(!f1)
{
printf("file error...???\n");
exit(0);
}
yyin=f1;
yylex();
printf("no of identifier is = %d ",id);
}
return 0;
}
int yywarp()
{
return 1;
}
```

## **OUTPUT**

```
[root@localhost ~]# vi b.c
THE CONTENTS OF FILE b.c is
void main()
{
if(i>j)
c=1;
else
d=1;
}
[root@localhost ~]# lex pg5.1
[root@localhost ~]# cc lex.yy.c -ll
[root@localhost ~]# ./a.out b.c
main :is identifier
i :is identifier
j :is identifier
c :is identifier
d :is identifier
no of identifier is = 5
```