

CODE

```
%{
int n = 0 ;
%}
%%
"while"|"if"|"else"|"int"|"float"    {n++;printf("\t keyword : %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("\nTotal no. of tokens = %d\n", n);
}
```

SCREENSHOT

The screenshot shows a Windows Command Prompt window titled 'C:\Windows\System32\cmd.e'. The command history and output are as follows:

```
C:\Compiler>set path=C:\Program Files (x86)\GnuWin32\bin
C:\Compiler>flex EXP_27.l
C:\Compiler>set path=C:\Program Files\CodeBlocks\MinGW\bin
C:\Compiler>gcc lex.yy.c
C:\Compiler>a.exe < 27.c
    keyword : int   identifier : a   operator : =   integer : 5   separator : ;
    keyword : float  identifier : b   operator : =   float : 2.5   separator : ;
    keyword : while   separator : (   identifier : a   integer : 10   separator : )   identifier : a   operator : ++   separator : ;
Total no. of tokens = 18
C:\Compiler>
```