Exp. No. 28

Write a LEX program to recognise numbers and words in a statement.

Program: (numbers_words.l)

```
%%
[\t ]+ ;
[0-9]+|[0-9]*\.[0-9]+ { printf("\n%s is NUMBER", yytext);}
#.* { printf("\n%s is COMMENT", yytext);}
[a-zA-Z]+ { printf("\n%s is WORD", yytext);}
\n { ECHO;}
%%
int main()
{
        while( yylex());
}

int yywrap( )
{
        return 1;
}
```

INPUT:

Variables A and B contains 10 and 20 respectively

OUTPUT:

```
Microsoft Windows [Version 10.0.22621.2715]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Deepak>d:

D:\>cd Slots

D:\Slots>cd Compiler Design

D:\Slots\Compiler Design>flex Ex13 Ex13separateno.l
flex: can't open Ex13

D:\Slots\Compiler Design>flex Ex13separateno.l

D:\Slots\Compiler Design>gcc lex.yy.c

D:\Slots\Compiler Design>a.exe
Variables A and B contains 10 and 20 respectively

Variables is WORD
A is WORD
and is WORD
B is WORD
contains is WORD
10 is NUMBER
and is WORD
20 is NUMBER
respectively is WORD
```