

30. Write a LEX program to recognise numbers and words in a statement. Pooja is a small girl of age 3 always fond of games. Due to the pandemic, she was not allowed to play outside. So her mother designs a gaming event by showing a flash card. Pooja has to separate the numbers in one list and words in another list shown in the flash card.

```
%{
#include <stdio.h>
%}

%%

[0-9]+      { printf("Number: %s\n", yytext); }
[a-zA-Z]+   { printf("Word: %s\n", yytext); }
.           ; /* Ignore any other characters */

%%

int main() {
    char input[4096]; // Adjust the size based on your needs
    printf("Enter your statement:\n");

    if (fgets(input, sizeof(input), stdin) == NULL) {
        fprintf(stderr, "Error reading input.\n");
        return 1;
    }

    // Set the input buffer
    yy_scan_string(input);

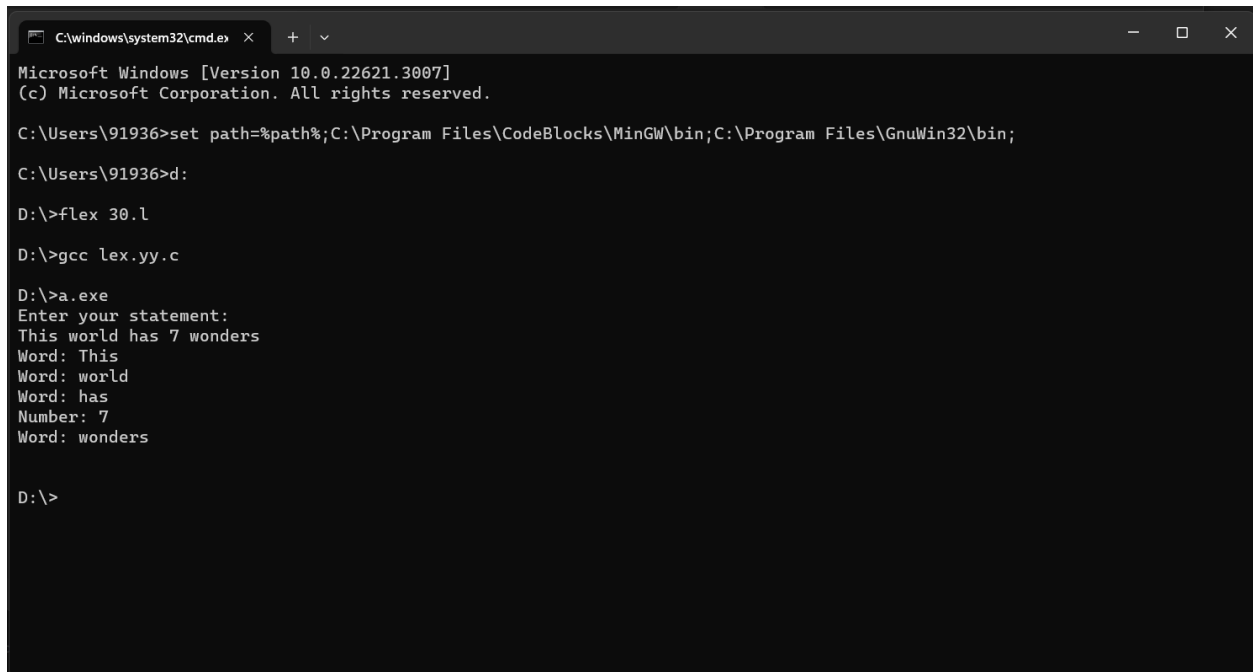
    // Start parsing
```

```
yylex();
```

```
return 0;
```

```
}
```

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



```
C:\windows\system32\cmd.exe
Microsoft Windows [Version 10.0.22621.3007]
(c) Microsoft Corporation. All rights reserved.

C:\Users\91936>set path=%path%;C:\Program Files\CodeBlocks\MinGW\bin;C:\Program Files\GnuWin32\bin;

C:\Users\91936>d:

D:\>flex 30.1

D:\>gcc lex.yy.c

D:\>a.exe
Enter your statement:
This world has 7 wonders
Word: This
Word: world
Word: has
Number: 7
Word: wonders

D:\>
```