

## Experiment -36

**Develop a lexical Analyzer to accept string starting with vowels using lexical program.**

Program:

```
%{

#include <stdio.h>

%}

%%

[aeiouAEIOU][a-zA-Z]* { printf("%s : Accepted (starts with vowel)\n", yytext); }

[a-zA-Z]+ { printf("%s : Rejected (does not start with vowel)\n", yytext); }

.\n      ;

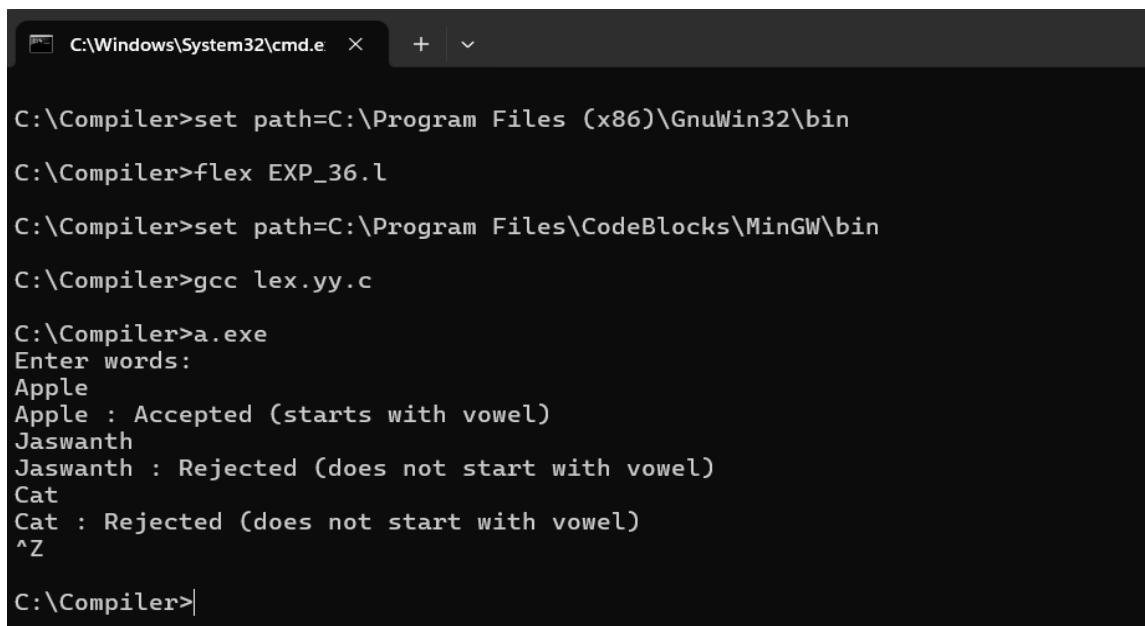
%%

int yywrap(){ return 1; }

int main() {

    printf("Enter words:\n");
    yylex();
    return 0;
}
```

**Output:**



The screenshot shows a Windows Command Prompt window titled 'C:\Windows\System32\cmd.e'. The command line shows the following steps:

- Setting the path to GnuWin32 bin: C:\Compiler>set path=C:\Program Files (x86)\GnuWin32\bin
- Compiling the lexical analyzer: C:\Compiler>flex EXP\_36.l
- Setting the path to MinGW bin: C:\Compiler>set path=C:\Program Files\CodeBlocks\MinGW\bin
- Compiling the lexer: C:\Compiler>gcc lex.yy.c
- Running the compiled executable: C:\Compiler>a.exe
- Entering words to analyze:

  - 'Apple' is accepted as it starts with a vowel.
  - 'Jaswanth' is rejected as it does not start with a vowel.
  - 'Cat' is rejected as it does not start with a vowel.

- The process ends with '^Z'.