

Experiment -34

Develop a lexical Analyzer to identify valid digit or not using lexical program.

Program:

```
%{

#include <stdio.h>

%}

%%

[0-9]+ { printf("%s is a DIGIT/NUMBER\n", yytext); }

[a-zA-Z]+ { printf("%s is NOT a DIGIT\n", yytext); }

.\n      ;

%%

int yywrap() { return 1; }

int main() {

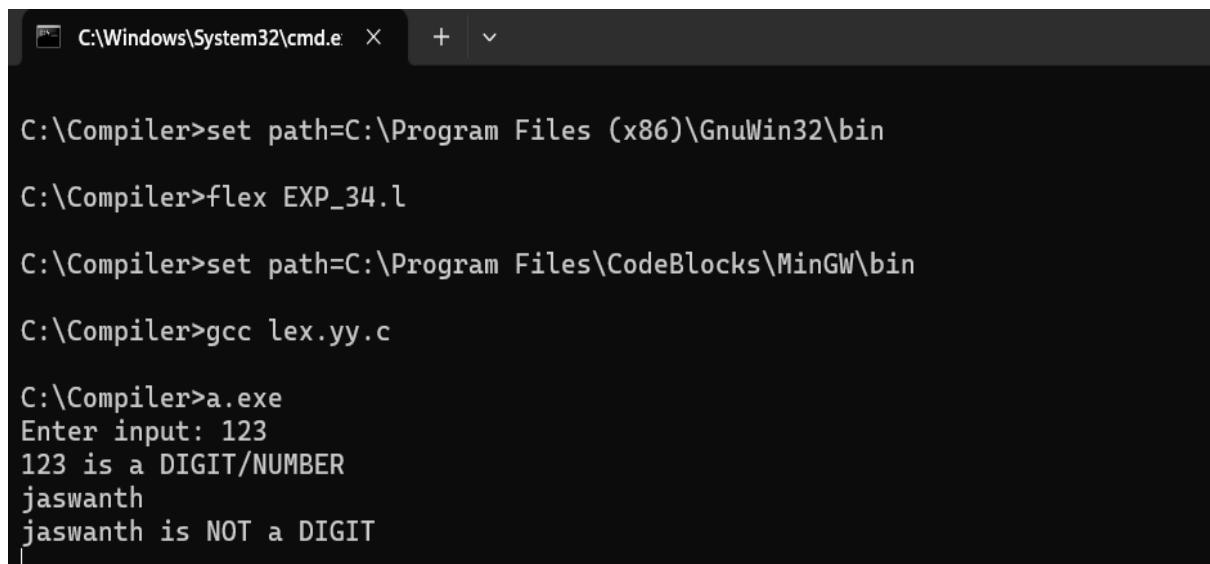
    printf("Enter input: ");

    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_34.l
- Setting the path to MinGW bin: C:\Compiler>set path=C:\Program Files\CodeBlocks\MinGW\bin
- Compiling the generated C code: C:\Compiler>gcc lex.yy.c
- Running the executable: C:\Compiler>a.exe
- Inputting '123': Enter input: 123
- Output for '123': 123 is a DIGIT/NUMBER
- Inputting 'jaswanth': jaswanth
- Output for 'jaswanth': jaswanth is NOT a DIGIT