

# CSP353 Lab

Experiment: 03 (CO-1)

### Implement Lexical analyzer using Lex compiler.

Ravikant Nirala Assistant Professor, CSE Department, Sharda University



## Lex and Yacc compiler installation

Installer Required in same directory (Program Files (x86))

- 1. Flex (https://gnuwin32.sourceforge.net/packages/flex.htm)
- 2. Bison (https://gnuwin32.sourceforge.net/packages/bison.htm)
- 3. Dev++ (https://www.bloodshed.net/)

#### Set Path

C:\Program Files (x86)\GnuWin32\bin;C:\Program Files (x86)\Dev-Cpp\MinGW64\bin

#### Command to Run

Step 1: flex file.l

Step 2: gcc lex.yy.c

Step 3: .\a.exe



## Implement Lexical analyzer using Lex compiler.

```
%{
#include <stdio.h>
%}
%%
                            { printf("IDENTIFIER: %s\n", yytext); }
[a-zA-Z][a-zA-Z0-9]*
[0-9]+
                    { printf("NUMBER: %s\n", yytext); }
[+\-*/=]
                   { printf("OPERATOR: %s\n", yytext); }
                  { /* Ignore whitespace */ }
\lceil t \rceil
                 { printf("UNKNOWN TOKEN: %s\n", yytext); }
%%
int main() {
  printf("Enter input (Ctrl+D to end):\n");
  yylex();
  return 0;
int yywrap() {
  return 1;
```

```
Enter input (Ctrl+D to end):

a = 5+b
IDENTIFIER: a
OPERATOR: =
NUMBER: 5
OPERATOR: +
IDENTIFIER: b
```