



## **2CS701- Compiler Construction**

### **Practical 1**

**Aim:** To implement lexical analyser to recognize all distinct token classes: use flex/lex tool to recognize all distinct token classes (Data type, Identifier, constant (Integer, Float, Char, String), Operator (Arithmetic, Relational, Assign, Unary +/-, Increment), Single line/Multi-line comments, Special symbol(, {} ())) .

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**Code:**

```
%{  
  
%}  
  
%%  
int {printf("It is a datatype");}  
[A-Z] {printf("It is a character");}  
[0-9] {printf("It is a number");}  
[@,$,*] {printf("It is a Special Character");}  
^[0-9]+ {printf("Not a Identifier\n");}  
"//" {printf("Single line comment\n");}  
"/*" {printf("Multi line comment\n");}  
[+,-,/,>,<] {printf("It is an Operator");}  
^[^-] {printf("It is an Operator");}  
[if,else,while,do] {printf("It is a keyword");}  
%%  
  
int yywrap(){  
    return 1;  
}  
  
void main(){  
    yylex();  
}
```