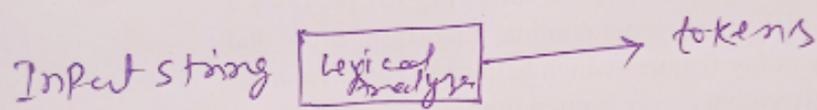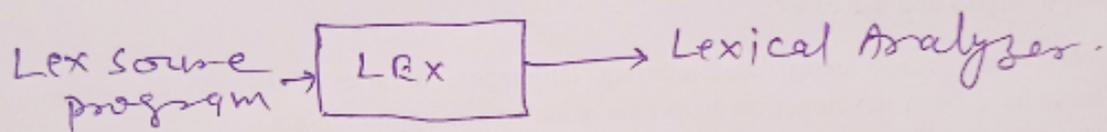# Lex

It is a tool or software which automatically generates a lexical analyzer. It takes as its input a LEX source program and produces lexical analyzer as its output. Lexical analyzer will convert the input string entered by the user into token as its output.

Lex source program → **LEX** → Lexical Analyzer.

Input string → Lexical Analyzer → tokens

Lex Tool.

Lex source program :- It is a language used for specifying or representing lexical Analyzer. There are three parts of LEX source program. And is separated by % delimiters.

Declarations
%%
Translation rules
%%
Auxiliary procedures

Declaration :- the declarations includes declarations of variables.

Translation rules :- these rules consist of pattern and action.

Auxiliary procedures: the auxiliary procedure holds functions used in the action.