

LEX Program

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Aim : Design Lex program for to generate token of given input file.

Problem statement : write a program using Lex Specifications to implement lexical analysis phase of compiler to generate token of subset of Java program.

Pre-requisite - LEX110, LEX120, LEX130, LEX140, LEX160, 250

~~System~~ Software Requirements -

Sr.No	Facillities requirement	Quantity.
1	System	1
2	o/s	Ubuntu
3	slw name	LEX Tool

Hardware Requirements - No.

Objectives - 1. To understand lex concept
2. To implement lex program.

2. To Study about Lex & Yacc
3. To Know Importances about lexical Analyzer.

Theory :

- lex stands for lexical Analyzer. lex is a tool for generating Scanner. Scanner are program that recognize lexical pattern text.
- These lexical Pattern are defined in a Particular system. A matched regular expression may have an associated action.
- This action may also include returning a token. When lex received ~~input~~ input in the form file or text, it takes input one characters at time and continues until a pattern is matched, then lex perform the associated action.

Regular Expression in Lex -

A Regular expression is a pattern description using a meta language. An expression is made up of symbols.

Programming in Lex -

Programming in lex can be divided into three steps 1. Specify the pattern-associated actions in a form that lex can understand.

2. Run lex over this file to generate C code for scanner.

3. Compile And link the c code to produce the executable Scanner.

----- definitions -----

%%

----- Rules -----

%%

----- Subroutines -----

Input to lex is divided into three sections with %% dividing the session.

Conclusion → Thus, we have studied lexical Analyzer and implemented an application for lexical Analyzer to perform scan the program and generate token of subset of java.