## Lexical Analysis:

- -> Reach the successive line
- Breaks into Home like identifier, operator, de-limiter,
- -> Constructs symbol table.
- -> Symbol table allocates memory.

Lexical Analysis is the first phase of the complier also known as a scanner. It converts the high level input program into a sequence of Tokens.

\* hexical Analysis can be implemented with the Deterministic finite
Automata.

\* The output is sequence of tokens that is sent to the parser for syntax analysis.

## Symtactic Analysis:

- -> Expression, statement, declaration identified.
- -> Aided by formal grammer of programming language.

Syntactic analysis or parsing or syntax analysis is the third place of NLP. The purpose of this phase is to draw exact meaning from the tent. Syntax analysis checks the fent for meaningfalness comparing to the rules of formal grammer.

For example, the sentence like "hot ice cream" would be rejected by semantic analyzer.

## Semantic analysis:

- -> Expression, statement, Analysis phase of syntax.
- Last phase of translation is code generation.

## Tools:

LER - Lexical Analyses YACC - Yet Another compiles

Semantic Analysis makes sure that declarations and statements of program are sementically correct, it is a collection of procedures which is called by parser as and when required by grammas.

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Both symbol tree of previous phase and symbol table are used to check the consistency of the given code. Type checking is an important part of semantic analysis where compiler makes sure end each operator has matching operands.