LEXICAL ANALYSIS: (also called scanner)

- -> Reach the successive line.
- -> Breaks into Hums like identifier, operdor, de-limiter.
- > constructs symbol table
- -) Symbol table allocates memory.
- -) Lexical Analysis is the first phase of the Compiler also known as a scanner It converts the high level input program into a setuence of Tokens.
- of lexial Analysis can be implemented with the Deterministic finite Automata.
- of the output is sequence of tokens that is sent to the parser for syntax analysis.

Syntactic Analysis: (also could parsing) -> Expression, statement, declaration identified.

- -) Aided by formal grammer of programming language

Jyntactic analysis or parsing or syntax analysis is the third place of NLP. The purpose of this phase is to draw creat Heaving from line text. Syntax analysis checks the text for meaningfulness comparing to the rules of formal grammer. For example, the sentence like, "not ice cream" would be rejected by semantic analyzer.

Semantic analysis: (also called Phase bridge).

- -> Analysis Phase of Syntax.
- -> Last phase of translation is code generation.

Tools:

LEX - Lexical Analyser

YACC - Yet Another Compiler

Semantic Analysis makes sure that declarations and Statements of program are semantically correct. It is a callection of procedures. Which is called by parser as and when required by grammer.

Both Syntax tree of previous phase and symbol table are used to cheek the consistency of the fiven code. Type cheeting is an of the fiven code. Type cheeting is an important part of semantic analysis where important part of semantic analysis where compiler makes sure that each operator has compiler makes sure that each operator has