## \* Lexical Analyses

also called as Scanner. Reach the successive line.

It breaks into terms like identifier, Operator, delimiter

-> The symbol table allocates memory. Analyzer constructs symbol table.

How it works

- 1. Input processing this stage involves, cleaning up input text send preparing include remaining contents, whitespace and other non-essential characters it for lexical analysis. This may from input text.
- a. Tokenisation: This is the process of breaking input text into sequence of tokens. This is usually done by matching characters in input text against let of patterns.
- The lexis checks that tool taken Is valid according to makes of programming Language.

## \* Syntactic Analyses

-> The syntatic analyses refers to the by programming language. It is aided by formal grammar

-> Also called as pasing.

\* purpose : Is to draw exact meaning -> checks text for meaningfulness comparing to rules of grammer

\* Create passe the on abstract syntax reflects grammatical structure of programhierarichal representation of source code that force of source code which is

Feautures:

\* Top-down & bottom-up passing \* Syntax tree. Context free Grammer

\* Error ditection

\* Intermediate code generation optimization.

Advantages:

⇒ Structural' Validation.

> Improved Code Generation.

\* Demantic Analyzer:

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expression, statement, declaration identified

-> Analysis phase of syntax

Last phase of translation is

It is also called as phase bridge

triors recognized are · Type mismatch

code generation.

Undeclared Variables.

Reserved identified Number.

Functions:

1. Type checking - Ensures that data with there definition. typus are used in a way consisted

a. Label Checking - A program should contain label refrences.

3. Flair Control Check - keeps a check that contrast structures are used in a proper marger.

-> Static Semantic: There are Checked at compile time.

- Dynamic Semantic: Oifferent units of program like expression & Statement

