LEXICAL AMALYSIS

Source code ______ Tokens ______ Assembly code

Lexical Parser

Analysis (Syntactic Analysis)

<u>Definition</u>: Lexical Analysis

Lexical Analysis, also known as Tokenizer or Lexing, breaks down source code text into sequence of small units called tokens. These tokens can be

- « Keywords (int, String,...)
- a identifiers (this_taken, vart,...)
- = literals (10, "hello")
- · operators (* , + , ...)

How: Lexical Analyzer turns programs into tokens?

Source code (characters)

Patterns (defined using regex)
implements as

Finite Automata

Pattern Matcher

it mothes

Token

Example.