JAVA->PYTHON COMPILER

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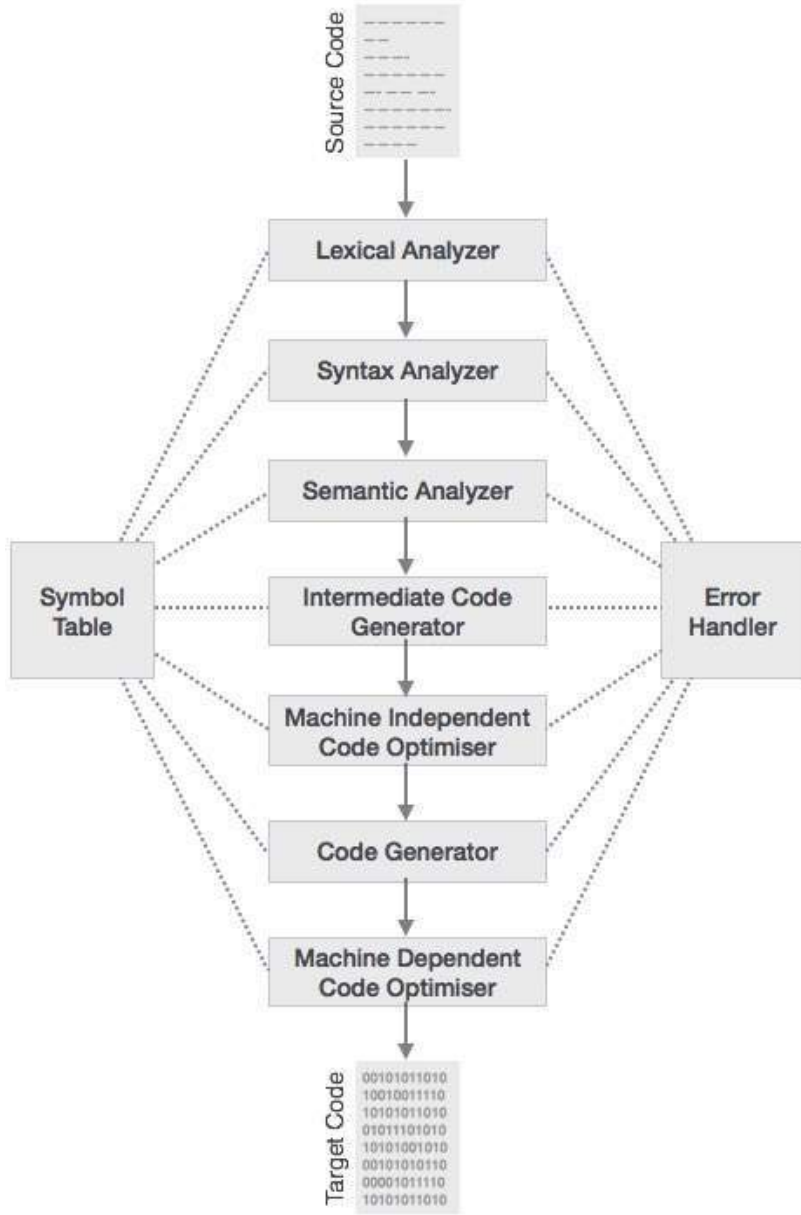
```
CLASS MAIN {
   PUBLIC STATIC VOID MAIN(STRING[] ARGS) {
      INT C = 11 ;
      IF ( C==1 ) {
            RETURN C ;
      WHILE (C<5) {
            SYSTEM.OUT.PRINTLN (C) ;
            C+=1;
      }
      }
}
```

```
C = 1
IF C == 1 :
     RETURN C
WHILE (C<5) :
     PRINT (C)
     C+=1
```

PHASES OF COMPILER



IMPLEMENTATION STEPS

LEXICAL ANALYSIS

SYNTACTIC ANALYSIS

CREATE NEW AST FOR PYTHON

CODE

LEXICAL ANALYSIS

WORKS AS A TEXT SCANNER.

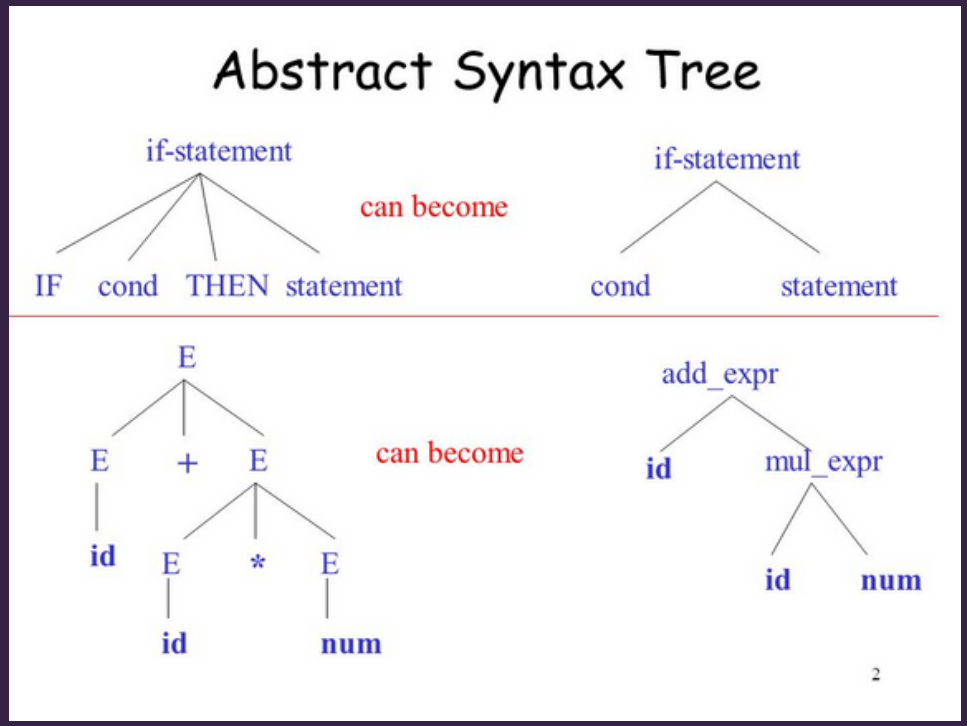
BREAKS THESE SYNTAXES INTO A SERIES OF TOKENS.

SYNTACTIC ANALYSIS

Takes the input from a lexical analyzer in the form of token streams.

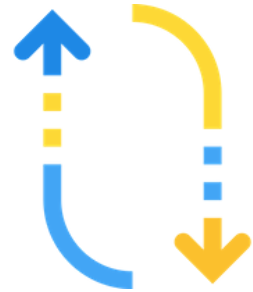
The parser analyzes the source code (token stream) against the production rules to detect any errors in the code.

The output of this phase is abstract syntax tree.



CREATE NEW AST FOR PYTHON

THE RESULT



THANK YOU

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