COMPILER DESIGN PROJECT

Topic:Operator-Precedence Parser

Team Members:

BATCH:B(3,4)

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ABSTRACT

About Operator-precedence parser

An **operator precedence parser** is a bottom-up parser that interprets an operator-precedence grammar. A grammar is said to be operator precedence grammar if it has two properties:

- No R.H.S. of any production has a ∈.
- No two non-terminals are adjacent.

Operator precedence can only established between the terminals of the grammar. It ignores the non-terminal.

About the Project

Language used:**Python**

The parser will take three input files,viz-a-viz ,**input.txt,grammar.txt,precedence.txt.**

- **precedence.txt**
  This file will contain the precedence and associativity for the available operators.The precedence and associativity will be given as per our requirement.
- **grammar.txt**
  This file will contain the grammar rules i.e the production rules for our language.
- **input.txt**
  This file will contain the input string.The parser will determine whether this input is follows the grammar rule.If accepted,ACCEPT message will be shown else ERROR will be flagged.

Output of Parser

The operator -precedence table will be displayed.If the input string is accepted by the parser,**ACCEPT** message will be displayed,if not **ERROR** will be shown.

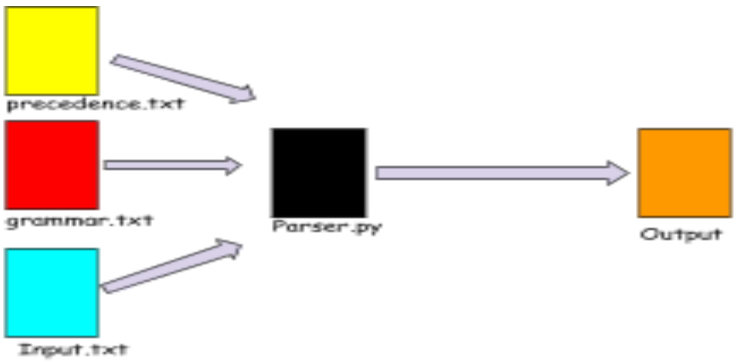

Fig:Working of Operator Precedence Parser