

JavaCompiler

Prerequisites

- [Java](#)
- [JFlex](#)
- [CUP](#)
- [VSCode](#)
- VSCode's [Java Extension Pack](#)

Structure

File Structure

·	
├── README.md	<- you are here
├── cup	
│ └── Parser.cup	cup parser specification
├── flex	
│ └── Scanner.flex	flex scanner specification
└── src	
├── lexer	
│ └── Lexer.java	lexer implementation (auto-generated by jflex)
├── parser	
│ ├── BooleanExpression.java	boolean expression tree
│ ├── Expression.java	mathematical expression tree
│ ├── MyObject.java	language object type
│ ├── Parser.java	parser implementation (auto-generated by cup)
│ ├── Program.java	list of statements
│ ├── Scope.java	scope for storing variables and parent scope
│ ├── Statement.java	statement tree
│ ├── Subprogram.java	function argument list and body
│ ├── Symbols.java	symbol table (auto-generated by cup)
└── Main.java:	main class for running parser/lexer

Keywords

if else while for func return

Operators

= == != < > <= >=

&& ||

+ - * / % ++ --

Usage

```
Usage: <main class> [-dp] [--help] FILE...
Lexer for the java language
    FILE...    Files whose contents to display
    -d, --debug  Print debugging information
    --help      display this help and exit
    -p, --parse  Parse the file instead of lexing it
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```

Credit

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