Parser

+_ourLangLexer : ourLangLexer
+ _ourLangParser : ourLangParser

+CommonTokenStream generateTokenStream(FileInputStream file);
+ParseTree GenerateParseTreeFromSourceCode(inputFile);

Analyser

+inputFile : String
+errors : ArrayList<LanguageError>

+GenerateDecoratedASTFromParseTree(tree);
+void handleImports(BaseASTNode abstractSyntaxTree);
+void scopeCheck(BaseASTNode abstractSyntaxTree, SymbolTable symbolTable);
+void typeCheck(BaseASTNode abstractSyntaxTree, SymbolTable symbolTable);

PrettyPrintTester

+void PrettyTest(String[] args, BaseASTNode abstractSyntaxTree);

ErrorReporter

+void HandleErrors(ArrayList<LanguageError> errors, ErrorType errorType);

CodeGenerator

+void GenerateCodeAndWriteToFile(BaseASTNode abstractSyntaxTree);

Main

+void main(String[] args);

GenerateParseTreeFromSourceCode()

GenerateDecoratedASTFromParseTree()

PrettyTest()

HandleErrors()

GenerateCodeAndWriteToFile()