

Lexical analyzer in Python (Final)

Popa Mihai-Adrian (gr. 936)

FLCD Repository: <https://github.com/adrian-popa/flcd>

Implementation:

Defined classes:

1. **SymbolTable**
2. **ProgramInternalForm**
3. **HashTable**
4. **Constant**
5. **Identifier**
6. **Scanner**

SymbolTable (symbol_table.py)

The SymbolTable class inherits part of the HashTable class and therefore uses the defined doubly linked list and the hashing mechanism for storing the pairs of **{position, identifier}**.

ProgramInternalForm (program_internal_form.py)

To be completed..

HashTable (hash_table.py)

The HashTable defines a doubly linked list and the hashing mechanism for storing a **{key, value}** pair on hashed positions, using the Python **hashlib** library, making sure that there are always unique entries.

Class diagram:

