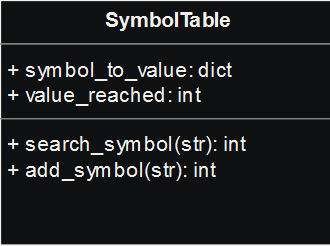
Lab 2

HashTable-based implementation

Lung Alin-Sebastian

Gr. 934

Github Repository: <https://github.com/IcerOut/FLCD>



UML Diagram

The implementation uses, internally, a Python dict object. It has a complexity for search and add of O(1)

Python’s dict’s hash function uses a series of bitwise operations to hash the strings into numeric values. It also automatically prevents hash collisions

The function “search\_symbol” takes in the symbol and returns the value associated to it or “-1” if the symbol doesn’t appear in the SymbolTable.

The function “add\_symbol” takes in the symbol and, if it already exists, returns its associated value. If it does not, it adds it to the hashtable and returns its newly associates value.