LAB 3 DOCUMENTATION: github link

NEW:

LinkedList: holds nodes (that consist of the attributes value and next - address of a node).

- add(value)
- clear()
- data (@property)

PIF: structure to maintain the program internal structure. Is based on a LinkedList that holds PifItems (token, id – id in pif, symbol_data – (symbol_id, symbol_type) if symbol else None).

- add(token, symbol_id=None, symbol_type=None): adds a PifItem based on the parameters given to the PIF
- clear()
- data (@property)

CHANGED:

Scanner: now in the lab3 folder. Should perhaps unite lab2 and lab3 (TODO). The methods not mentioned remain the same.

- __parse_tokens(): returns all tokens, including separators + keywords (except ' ', '\t', '\n'), used a tuple (token, token_type) to differentiate symbols by separators + keywords

- __process_symbols_and_pif(): it was process_symbols, now '_and_pif' joined! Now, it also, checks the type of the token and calls the Pif.add function with the proper parameters in order to add to the Pif. Changes to the symbols part: now it also shows the line of the not ok symbol in case of an error (lexical errors tokens are put as a symbol since the separators + keywords are fixed).

RUNNING scanner.py: the test programs are now in test_programs. Instead of writing the outputs in the console, now separate files for each program and symbol_table/pif are created and stored in the lab3/out_scanner folder.