https://github.com/Nyesteban/FLCD-lab-2

In the ProgramScanner class, the constructor takes a file path, which represents the location of the file to be scanned.

The readFile, createListOfProgramsElems and tokenize functions together read the program file, replace tabs with “” and create a list of tokens, such that elements of a string are not counted as separate tokens, and while counting lines and columns and associating them to each token (where they are in the program).

After creating the list of tokens and location in the program, the scan function analyzes each token and classifies them into categories (reservedWords (2), operators(3), separators(4), constants(0) and identifiers (1)) or prints an error if the token is neither of these categories. After they are properly classified, the tokens are added to the PIF, together with their location in the program ((-1, -1) for anything that is not a constant or an identifier) and their category (their assigned number).

The ProgramInternalForm class manages the data regarding the PIF (tokens, their location and their type).