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

The Parser class implements all the functions related to the LL(1) parsing algorithm.

The generateSets() method is called in the constructor and generates the first sets using the generateFirstSet() function, the follow sets using the GenerateFollowSet() function and the parsing table using the createParseTable() function.

The firstOf() function generates the first set for a given non-terminal.

The followOf() function generates the follow set for a given non-terminal.

The followOperation() method is a helper function used in followOf().

In the createParseTable() function, we associate a number to each production using numberingProductions() (to resolve any potential conflicts), then we insert values in the table case by case.

The parse() function parses a given string using alpha, beta and pi stacks.

The parseSource() function parses a given PIF using the parse() method.

The ParseTable class contains functions for managing the parse table, a Map<Pair<String, String>, Pair<List<String>, Integer>> HashMap structure.