Compiler Design Project 2

1. Keyword

   The goal of project 2 is to make a simple parser with the aid of antlr tool.

2. Data type:

   void, int, double, char, float.

3. Program execution:

   Only one main function. Besides, it is only allowed to use the printf function with one parameter.

4. Program control flow

   While-loop, if-then-else.

5. Program statement

   The grammar can support:

   Arithmetic operation: add, minus, multiplication, division.

   Logical expression: >=, <=, >, <, ==, &&, ||, &, |.

   Constant Variable: Identifier, integer number, floating-point number, white space (' ', '\t', '\n', '\r').