

Lab Work 5
Due Date: May 09, 2025 (EoD)
Groups of 2.

Task 1: Add support to the grammar for the following

% and ^ Already completed (mod and power)

Unary minus and plus $F \rightarrow -F$ $F \rightarrow +F$

Task 2: Add support to the grammar for the following

if (one or more conditions)

The condition should resolve to > 0 as TRUE and ≤ 0 as FALSE

Implement it as a complete conditional if structure

Provide support for: (condition) || (condition) && (condition) any possible combination

Consider the condition to be any arithmetic expression

|| has same precedence as ADD and MINUS

&& has same precedence as MULTI and DIV

Provide support for $<$ $>$ \leq \geq operators

Provide support for Negation (arithmetic operator) and Not (logical) in the conditions

Task 3: Add support to the grammar for the following

{ } in addition to the current () in the grammar.

Submit a single zip file with the name as: ID1-ID2.zip

Place your .I .y and make files at the root.

Your compiled parser should be a file names: **work5**

i.e. I should be able to do the following:

make

./work5 inputfile.txt

You do not need to provide inputfile.txt. Hardcode its name in the main function.