## Lab 6 - Abstract Syntax Tree

Course: Principles of Programming Languages (Code: IT092IU) HCMIU-CSE, Summer 2024 Instructor: Le Thi Ngoc Hanh, PhD Write code in "ASTGeneration.py" to parse AST trees with the following grammars. Exercise 1 program: (expression)\*; expression: Interger | Identifier; Integer: [0-9]+; Identifier: [a-z]+; Exercise 2 program:( expression )\*; expression: expression "+" term | term; term: Integer | Identifier; Integer: [0-9]+; Identifier: [a-z]+; Exercise 3 program: (expression)\*; expression: expression (Add | Sub) factor | factor; factor: factor (Mul | Div) term | term; Add: '+'; Sub : '-'; Mul: '\*'; Div: '/'; term: Integer | Identifier;

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Integer: [0-9]+;

Identifier: [a-z]+;