## COMP 410 Summer 2025

## **Grammar-based Test Generation**

Consider the following grammar, corresponding to a simplistic programming language:

 $e \in Expression ::= true | false | if(e_1, e_2, e_3)$ 

Using Prolog, write a procedure which takes a maximum expression depth, and will produce valid sentences according to the above grammar. An example query is below:

?- exp(0, E). E = true ; E = false .