## Assignment 2

## Problem: Resolution in Propositional Logic

In this assignment you will implement Propositional Resolution to check the satisfiability of sentences in  $\mathcal{P}_0$ . This assignment builds on Assignment 1 - input and output will be given as in the last assignment, and the work used therein must be used to parse the input sentences into ASTs.

Extend the AST signature to include the following datatypes and functions:

The constructors P and N signify an atom and its negation, respectively. Together, they define the literals. In essence, you are required to convert the Prop to Cnf, and apply resolution on the resultant Cnf to check satisfiability.