Assignment 1

Construct models for the arithmetic and Boolean expressions, states, statements, and substitutions described in Nielson and implement functions/methods

- to convert these models to external representation (`show`/`toString`),
- to evaluate expressions,
- find the set of free variables,
- and apply substitutions.

Make use of Haskell classes or Java inheritance to create models that may modified and extended.

Optionally you may implement parsers for expressions and substitutions e.g. by using the parser tools from the course on Functional programming, eda120/date13 , or Compiler construction, eda180/date17.