Semantic Analysis

Semantics defines the meaning of any syntactically valid program written in a specific language. MOE parses a program by syntax and semantics at the same time. It provides the rules for the interpreting the syntax which do not provide the meaning directly but constraints the possible interpretations of what is declared. In semantics, we take the syntax as a given and attempt to write down rules that let us assign ‘meaning’ to a syntactically correct pieces of a language.

This enforces semantic rules. Semantics’ ensures that the source code written will provide the executable object in simplest translation.

MOE’s semantic analysis makes use of *Knuth*’s attribute grammar to describe its static semantics but before all, the errors that will be captured are the following: