

Constant folding

Compiler optimization and exercise of AST modification

Notes

- The idea is trying to evaluate constant expressions in a compile-time as oppose to run-time **when** we have all things we need to evaluate it.
- For example given `var i : Int = 3 * 4 + 2;` . We should be able to replace `i` 's RHS expression with "14".
- Remember AST is immutable so we need to return a new AST

How to accomplish it?

Using visitor pattern and modifying the AST by returning a updated node

Lab assignment

We are trying to use a inherited and synthesized attribute to achieve this.