
Status Report: Compiler Project

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What was attempted

Language Specifics:

- Support for int and string types
- While loop, if and ifelse statements
- Break, continue and return
- Functions, statements and expressions involving basic arithmetic

Compiler Specifics:

- Lexing with bad character tolerance and printing
- Parsing with ability to print error location and faulting token
- Ast with position (line no, line col) embedded in the types
- Javascript creation from ast with basic type checking and scoping .

What is achieved

- The language specifics were all met except for being able to return values from functions

Compiler Specifics:

- Compiles a file written in star to a javascript code file
- Lexing with bad character tolerance and printing of bad character with line number and line column number
- Line number printed on encountering parse error does not change from 1 but the error message along with the faulting token is printed
- Ast with position (line no, line col) embedded in the types
- Javascript creation from ast with basic type checking . A basic scope checking is also implemented.