# **Compiler Design Assignment 2 (Parser)**

### **Group Details**

- Project Group Number: 35
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#### Instructions to run lexer

- python lexer.py --cfg=../tests/cfg1/some-cfg
  ../tests/input1/some-input --output=../output/some.html
- Or you can run ./run\_lexer.sh to generate all combinations of HTML files.
- To generate a config file: cd tests && python color\_cfg\_gen.py <name>

## Instructions to run parser

- python parser.py ../tests/input2/some-input --output=../output/some.html
- Or you can run ./run\_parser.sh to generate all combinations of HTML files.

## Language

#### Our SIT triplet is:

- Source language: golang
- Implementation language: python
- Target machine code/language: risc-v

### Following features distinguish our source language from C:

- Auto assignment, i.e. type inference
- Multiple return values
- a, b, c = 1, 2.0, "Hello"
- func(a, b int) along with func(a int, b int)

Reference for the grammar of golang: <a href="https://golang.org/ref/spec">https://golang.org/ref/spec</a>