CS322 – Language and Compiler Design II

Assignment 2 – Generating Intermediate Representation from SimpleC

Requirement

Build a compiler to convert *SimpleC* program to the *HIR* one. The *HIR* language is described in the document *HIR Description.pdf*.

Implementation

The compiler is implemented in class `HIRCompiler` with method:

```
static void compile(Ast.Program p)
```

You should use your *Assignment 1* as the basis of your own compiler.

An interpreter that executes *HIR* files is available in the jar file *HIRInterpreter.jar*; to run it on file *test1.hir*, you can type

```
java -jar HIRInterpreter.jar test1.hir
```

The interpreter takes user input from standard input and writes program output to standard output in the usual way.

Submission

Compress your project into a single file named **<StudentID_Assignment2>.zip/rar** and submit to our course website. Make sure that both source code and a runnable version of your program, named **HIRCompiler.jar**, are also included. Then we can test your program by just type:

```
java -jar HIRCompiler.jar <SimpleC_file> <HIR_file>
```


^-^ GOOG LUCK! ^-^