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**Programming Languages**

**Project 2**

**User’s Manual**

## Setup and Compilation

1. Download and unzip the submission from eLearning on a Linux machine.
2. The submission includes:

* hashTable.c
* hashTable.h
* symbolTable.c
* symbolTable.h
* parser.c
* parser.h
* lexer.c
* lexer.h
* InputFiles (files named a1.in - a8.in)
* makefile
* run (a bash script to compile and run the program with each of the input files)

1. **Environment**: This program has been tested on the uwf ssh server and will run there.
2. **Compilation**: This program includes a makefile. To compile the program without executing tests, run *make main* from a linux terminal. The program will produce an executable named ***./main***

## Running the Program

This program includes a bash script named *run* to compile and run the program with the test inputs. This can be achieved by running *./run* in a linux terminal. **Before you can run this script, you must tell the computer it is allowed to run as an executable by running the command**: **chmod +x run**.

No user input is required. All tests will be executed automatically.

## Output

All output will go to the console. Output will be similar to this:

========================================================================

Running parser on file a1...

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Success!

R0 = b

a = R0

R0 = b

R1 = 2

R0 = R0 + R1

a = R0

\*\*\*\*\*[b2+]\*\*\*\*\*

printing all identifiers...

Identifiers: [ a, b, ]

========================================================================

Running parser on file a2...

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Failed! Invalid file.

Error:Cannot reference id: b on line 3 col 7 without declaring it first.