Mikayla Timm

PL Assignment 2

Users Manual

SHORT VERSION:

cd to this directory after unzipping, then in command line type “make” then “./test.sh”

LONG VERSION:

**Setup and Compilation:**

1. Download and unzip the submission from eLearning on a Linux box in the multi-platform lab.

2. The submission includes:

* Lexan.c and Lexan.h
* Parser.c and Parser.h
* RecursiveDescent.c
* UsersManual.docx (this file)
* FunctionalDecomp.docx
* 4 legal .p files for running
* 4 illegal .p files for running
* Makefile
* test.sh – a script for running the program with all the different .p files

3. Environment: This program has been tested on my laptop and the multi-platform lab and should run there.

4. Compiling: The program includes a Makefile. At the command line in Linux (after cd-ing to the correct directory), type **make**. The program produces an executable entitled “test”.

**Running the program:** Be sure the legal1.p – legal4.p and illegal1.p – illegal4.p are in the same directory as the executable. Issue these commands:   
**chmod +x test.sh**

**./test.sh**

No command line arguments are required, everything is done already in the script file. The script will run the four legal files with the program first, then the four illegal files.

User input: none required

**Output:** Output is divided between console and files. Each time the program is run, it will say  
 Compiling <filename>.p

If the program is legal, it will say

The program is legal. Output is in file <filename>.out

All code generated will be output to <filename>.out

Legal code generated will look like this:

Register operations

Register operations

Register operations (etc)

LeftHandSideVariable = registerHoldingOutput  
\*\*\*\*\*[postfixexpression,each,operand,and,operator,separated,by,comma]\*\*\*\*\*

If the program is illegal, it will say

Line <lineErrorOccurredOn> contains error: <errormsg>

Any code generated up to this point will still exist in <filename>.out, but the program will terminate as soon as the error is encountered.