Rocio Krebs

Programming Languages

Project 1

User's Manual

Setup and Compilation

1. Download and unzip the submission from eLearning on a Linux box in the multi-platform lab.
2. The submission includes:
   - lexer.h
   - parser.h
   - table.h
   - lexer.c
   - parser.c
   - table.c
   - main.c
   - Makefile
   - run
   - a1
   - a2
   - a3
   - a4
   - a5
   - a6
   - a7
   - a8
   - UsersManual.pdf (this file)
3. Environment: The program has been tested in the multi-platform lab and will run there.
4. Compilation: This program includes a `Makefile`. At the command line in Linux, type make. The program produces an executable entitled `main`.

Running the program: Be sure the files `a1, a2, a3, t4, t5, t6, t7,` and `t8` are in the same directory as the executables `main and run`. Issue the command `./run` No command-line arguments are required or checked.

User Input: User input is not required to run this program.

Output: All output goes to the console. Output will be similar to the following page:

```
rk50@cs-ssh:~/spring2022/cop4020/Project1                        —    □    ✕

[rk50@cs-ssh Project1]$ ls
a1  a3  a5  a7  lexer.c  main.c    parser.c  run       table.h
a2  a4  a6  a8  lexer.h  Makefile  parser.h  table.c
[rk50@cs-ssh Project1]$ make
gcc -g -Wall -c lexer.c
gcc -g -Wall -c parser.c
gcc -g -Wall -c table.c
gcc -g -Wall -c main.c
gcc -g -Wall lexer.o parser.o table.o main.o -o main
[rk50@cs-ssh Project1]$ ls
a1  a3  a5  a7  lexer.c  lexer.o  main.c  Makefile  parser.h  run       table.h
a2  a4  a6  a8  lexer.h  main     main.o  parser.c  parser.o  table.c   table.o
[rk50@cs-ssh Project1]$ ./run

Compiling a1
Line: 2 Identifier cannot end with underscore

Compiling a2
Success
a, b

Compiling a3
Line: 4 syntax error expected ')'

Compiling a4
Success
a, b, c, d, e, f, ghijk, hello

Compiling a5
Line: 6 syntax error expected '='

Compiling a6
Success
a, b, c, d, e, f, ghijk, hello, e_tt

Compiling a7
Line: 4 syntax error expected 'begin'

Compiling a8
Success
a, b, c, d, e, f, ghijk_9876, b_3, hello, a_sdf
[rk50@cs-ssh Project1]$ ▮
```