

Assignment 1

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1 File Structure

We have a lex file named **java_scanner.l**, a sample C++ file named **java_scanner.cpp** and a utility header file named **java_scanner.h**. We have 3 folder named testcase, output and error. Testcase folder contain 4 test cases with name **test_<serial_no.>.java**. **Output** folder will contain the output of the script by name **test_<serial_no.>.out** when runned upon a test case serial no. and, Similarly **error** folder will contain error message of script by name **test_<serial_no.>.err** when runned upon a test case serial no.

2 Command

Make sure run.sh is given executable permission.

```
./run.sh testcase/test_ <serial_no.>.java
```

3 Output

If the above script prints " Congo!! Everything seems fine so far. " on terminal. It implies successfull execution of script and it will form a **lex.yy.c** and **lexer** file in the folder, with lexer being the executable. It would have also formed the output file inside **output** folder and error file inside **error** folder corresponding to the input testcase by name **test_<serial_no.>.out** and **test_<serial_no.>.err** respectively.

3.1 Output File Format

The output file is in a csv format with header defining the order of output i.e. **Lexeme,Token,Count** and a footer line displaying the end of output file.

3.2 Error File Format

The Error file is containg the line no of the first occurence of error in the testcase along with the respective lexeme which is the cause of the error.