

Programming Assignment 2

File name: p2

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- This program uses JLex to write a scanner for our language, called Gibberish, a small subset of the C++ language.
- To compile the program, log into a CS Dept. Linux machine and scp the whole file p2 into a directory in Linux. The program requires the input files allTokens.in, eofTest.in, allTokens.in, and eofTest.out for my tests.
- The main file P2.Java tests the scanner. Look at P2.Java for more details on how the testing is done.
 - testAllTokens() method in P2.java uses the files allTokens.in and allTokens.out to determine if the tokens are recognized by the scanner. To make sure that the correct output is correct manually check that the allTokens.out file and allTokens.exp are the same after running the make test. When running 'make test' the following errors will be caught and outputted to the console as seen here:

```
testAllTokens
68:1 ***ERROR*** unterminated string literal ignored
69:1 ***ERROR*** unterminated string literal ignored
70:1 ***ERROR*** string literal with bad escaped character ignored
71:1 ***ERROR*** string literal with bad escaped character ignored
72:1 ***ERROR*** unterminated string literal with bad escaped character ignored
73:1 ***ERROR*** unterminated string literal with bad escaped character ignored
75:1 ***ERROR*** unterminated string literal ignored
77:1 ***ERROR*** ignoring illegal character: &
78:1 ***ERROR*** ignoring illegal character: $
79:1 ***ERROR*** ignoring illegal character: %
80:1 ***ERROR*** ignoring illegal character: @
81:1 ***WARNING*** integer literal too large; using max value
82:1 ***ERROR*** unterminated string literal ignored
eofTester
1:1 ***ERROR*** unterminated string literal ignored
```

- These errors are to be expected as the allTokens.in file also contains specific inputs that cause these errors, hence for the manual file checking between the

allTokens.out file and the allTokens.exp files. It also checks the line number and character number.

- eofTester() method in P2.java checks to make sure that EOF is reached. To check the output of this also compare eofTest.out to eofTest.exp similar to testAllTokens() method. This also outputs an error to the console as seen in the image above.

- Uses the files (eofTest.in & eofTest.out)