

```
1  import org.antlr.v4.runtime.ANTLRInputStream;
2  import org.antlr.v4.runtime.CommonTokenStream;
3
4  import java.io.BufferedReader;
5  import java.io.FileInputStream;
6  import java.io.InputStream;
7  import java.io.InputStreamReader;
8
9  public class MyLanguageRunner {
10
11      public static void main(String[] args) throws Exception {
12
13          // check if we want to use a file as input or System.in
14          String inputFile = null;
15          if (args.length > 0) inputFile = args[0];
16          InputStream is = System.in;
17          if (inputFile != null) {
18              is = new FileInputStream(inputFile);
19          }
20
21          BufferedReader br = new BufferedReader(new InputStreamReader(is));
22          String expr = br.readLine(); // get first line of input
23          int line = 1; // track line numbers
24
25
26
27
28          // create a Parser that we will reuse for each line of input
29          // ** change name of Parser to match your Parser name
30
31          // we will share this single parser instance with different lexers
32
33          MyLanguageParser parser = new MyLanguageParser(null);
34          parser.setBuildParseTree(false); // don't need trees
35
36          // as long as we keep getting input we create a new LEXER that will
37          // generate a new set of TOKENS to feed to our parser.
38
39          while (expr != null) { // while we have more lines of input
40              // create new lexer and token stream for each line (expression)
41              ANTLRInputStream input = new ANTLRInputStream(expr + "\n");
42
43              // ** change name of Lexer to match your Lexer
44              MyLanguageLexer lexer = new MyLanguageLexer(input);
45
```

```
46         // do some lexer work
47         lexer.setLine(line); // notify lexer of input position
48         lexer.setCharPositionInLine(0);
49         CommonTokenStream tokens = new CommonTokenStream(lexer);
50
51         // pass our TOKENS to the parser
52         parser.setInputStream(tokens); // notify parser of new token stream
53
54         // ** change 's' to your starting parser rule
55         parser.root_rule(); // start the parser to match rule s
56
57         expr = br.readLine(); // see if there's another line
58         line++;
59     }
60 }
61 }
```