

```

1 package LexicalAnalyzer;
2 /**
3  * Match
4  *
5  * This is the match class and provides a
6  * constructor for the matches found.
7  *
8  * @author Derek Trom
9  * @author Elena Corpus
10 * @version 1.0
11 * @since 2020-09-26
12 */
13 public class Match {
14     /**
15      * Create variables for the int totalMatches,
16      * int matchID, and String for return values
17      */
18     private static int totalMatches = 0;
19     private int matchID = 0;
20     private String lexeme = "";
21     private String token = "";
22
23     /**
24      * Constructor assigns the token and lexeme,
25      * and gives this instance a matchID while
26      * incrementing the totalMatches.
27      * @param lexeme String for the lexeme
28      * @param token String for the token generated
29      */
30     public Match (String token, String lexeme) {
31         this.lexeme = lexeme;
32         this.token = token;
33         this.matchID = ++totalMatches;
34     }
35
36     /**
37      * Overridden String method to print in a column format
38      * @return str formatted with token and lexeme
39      */
40     @Override
41     public String toString() {
42         String str = "%-20s %-20s";
43         str = String.format(str, token, lexeme);
44         return str;
45     }
46 }
47

```