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package lexical\_analysis;

import java.util.\*;

public class Lexical\_analysis {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) {

String[] keywords={"if", "else", "writeIn", "end", "for", "while", "do"};

String[] identifier={"age", "underaged", "Adult", "maximum", "sentence", "count","age" };

String[] operator={"<", "(", ")", "\"", "+", "=",";"};

String[] literal={"0", "1", "2", "3", "4","5", "18"};

Scanner input=new Scanner(System.in);

System.out.print("Enter Text: ");

String st=input.nextLine();

int count=0;

int ident\_count=0;

int keywords\_count=0;

int literal\_count=0;

int operator\_count=0;

int count2=0;

int count3=0;

StringTokenizer stk=new StringTokenizer(st," ");

while(stk.hasMoreTokens()){

String token=stk.nextToken();

for(int i=0; i<7; i++)

{

if(token.equals(identifier[i])){

ident\_count++;

System.out.println("identifier: "+token);

}else if(token.equals(operator[i])){

operator\_count++;

System.out.println("operator: "+token);

}else if(token.equals(literal[i])){

literal\_count++;

System.out.println("literal: "+token);

}else if(token.equals(keywords[i])){

keywords\_count++;

System.out.println("keywords: "+token);

}

//System.out.println("Words are: "+token);

count++;

}

}

System.out.println("\nidentifier count: "+ident\_count);

System.out.println("operator count: "+operator\_count);

System.out.println("literal count: "+literal\_count);

System.out.println("keywords count: "+keywords\_count);

}

}

// result

run:

Enter Text: if age < 18 writeIn ( " underaged " ) ; else writeIn ( " Adult maximum sentence " ) ; end if count = count + 1 ;

keywords: if

identifier: age

identifier: age

operator: <

literal: 18

keywords: writeIn

operator: (

operator: "

identifier: underaged

operator: "

operator: )

operator: ;

keywords: else

keywords: writeIn

operator: (

operator: "

identifier: Adult

identifier: maximum

identifier: sentence

operator: "

operator: )

operator: ;

keywords: end

keywords: if

identifier: count

operator: =

identifier: count

operator: +

literal: 1

operator: ;

identifier count: 8

operator count: 14

literal count: 2

keywords count: 6

BUILD SUCCESSFUL (total time: 3 minutes 11 seconds)