- Use StringTokenizer object to tokenize a string.
- Constructor:

#### Parameters:

```
str - a string to be parsed.
```

delim - the delimiters.

returnDelims\* - flag indicating whether to return the delimiters as tokens.

\* this parameter is optional.

- If the returnDelims flag is true, then the
  delimiter characters are also returned as tokens.
  Each delimiter is returned as a string of length
  one.
- If the returnDelims flag is false, the delimiter characters are skipped and only serve as separators between tokens.

For example,

```
//Separate tokens with a space character, the
//delimiter, which is not returned as a token.
StringTokenizer tokenizer = new
   StringTokenizer(expression, " ");

//Separate tokens with delimiters +,-,*,/,(,), or a
//space character, and return the delimiter as a
//token( a string of length one).
StringTokenizer tokenizer = new
   StringTokenizer(expression, "+-*/() ", true);
```

See StringSplitter.java.

```
jimport java.util.Scanner;
 import java.util.StringTokenizer;
) /**

    Tokenize an expression using specific delimiters or a sentence by space.

  * @author Oi Wang
  * @version 1.0
  */
 public class StringSplitter {
     /**
      * Tokenize a user-entered input using specific delimiters or a space character.
      * @param args A reference to a string array containing command-line arguments
      */
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    public static void main(String[] args) {
         Scanner input = new Scanner(System.in);
         String expression;
         StringTokenizer tokenizer;
         //Read an arithmetic expression
         System.out.print("Enter an arithmetic expression or a sentence: ");
         expression = input.nextLine();
         tokenizer = new StringTokenizer(expression, "()+-*/ ", true);
         while(tokenizer.hasMoreTokens()){
             System.out.print(tokenizer.nextToken() + " ");
         System.out.println();
         input.close();
```

# **Summary**

- Introduction to Wrapper Classes
- Wrapper Classes
  - Numeric Data Types and the Character Class
- Tokenizing Strings:
  - The StringTokenizer Class