## **Programming Assignment 9-2**

Create a class SymbolBalancer that has a constructor

```
SymbolBalancer(String filename)
```

which accepts the name of a file to examine, and that also has a method

```
boolean symbolsBalanced(String delimiters)
```

The delimiters argument is a list of all pairs of delimiters that will be used by your symbol balanced method. For example, here is a possible value of the delimiters parameter:

```
"[](){}"
```

The String that is passed into this argument must be parsed. You can do this in a loop with repeated calls to charAt.

Also, you should provide an instance variable text that will store the text to be parsed (which you will extract from the input file).

Your method symbolsBalanced should return true if the open/closed pairs of delimiters specified in the delimiters argument, as they occur in the text that is being examined, are balanced; false, otherwise.

We will explain more formally how to read a file in a later lesson. For now, use the readFile() method provided below to store the file content in a String named text. The following sample code shows how this can be done:

Create a readFile() method like the sample above. (Your constructor should call this method immediately after setting the input file name.) Test your symbol-balanced-checking code in a main method by reading in the Employee.java class (provided in a folder in this directory) using readFile(). (See the readme file for instructions about where to place the input file in your directory.) In your call to symbolsBalanced(), pass in the following String of delimiter pairs: "[]{}<>()||". Your main method should simply output either "true" or "false" to the console, indicating the result of the symbol-balanced test.