## Reading from a Text File

Reading text from a file is simple, but this time we'll use a File object to represent the file, a FileReader to do the actual reading, and a BufferedReader to make the reading more efficient.

The read happens by reading lines in a while loop, ending the loop when the result of a readLine() is null. That's the most common style for reading data (pretty much anything that's not a Serialized object): read stuff in a while loop (actually a while loop *test*), terminating when there's nothing left to read (which we know because the result of whatever read method we're using is null).

A file with two lines of text.

What's 2 + 2?/4What's 20+22/42

MyText.txt

```
import java.io.*; Don't forget the import
class ReadAFile {
     public static void main (String[] args) {
                                                                     A FileReader is a connection stream for
                                                                     characters, that connects to a text file
         try {
             File myFile = new File("MyText.txt");
             FileReader fileReader = new FileReader(myFile);
             BufferedReader reader = new BufferedReader(fileReader);
                                                                            Chain the FileReader to a
                                                                            BufferedReader for more
                                                                            efficient reading. It'll go back
   Make a String variable to hold
                                                                             to the file to read only when
   each line as the line is read
                                                                             the buffer is empty (because the
                                                                             program has read everything in it).
             String line = null;
             while ((line = reader.readLine()) != null) {
                 System.out.println(line);
                                                         This says, "Read a line of text, and assign it to the
                                                          String variable 'line'. While that variable is not null
             reader.close();
                                                          (because there WAS something to read) print out the
                                                          line that was just read."
        } catch(Exception ex) {
                                                         Or another way of saying it, "While there are still lines to read, read them and print them."
              ex.printStackTrace();
        }
    }
}
```