

```

1  package Assign_2;
2
3
4  import BasicIO.*;
5  import static java.lang.Character.*;
6
7
8  /** This class is a filter class that reads and returns words from an
9   * ASCIIDataFile.
10  *
11  * @author Dave Hughes (from prototype by E. Foxwell)
12  * @version 1.0 (Feb, 2016) */
13
14  public class WordReader {
15
16      private ASCIIDataFile source; // source of text for reading words
17
18
19      /** The constructor initializes the reader opening an ASCIIDataFile to read
20       * from. */
21
22      public WordReader ( ) {
23
24          source = new ASCIIDataFile();
25
26      }; // construtor
27
28
29      /** This method returns true if the underlying data file has reached EOF.
30       *
31       * @return boolean true if the file has reached EOF. */
32
33      public boolean isEOF ( ) {
34
35          return source.isEOF();
36
37      }; // isEOF
38
39
40      /** This method returns the next word (string of alphabetic characters) in the
41       * data file. If the end of file is reached, a subsequent call to isEOF will
42       * return true and the result of readWord is undefined. */
43
44      public String readWord ( ) {
45
46          String result; // next word read
47          char c; // next character in input
48
49          result = "";
50          for ( ; ; ) { // skip to alphabetic
51              c = source.readC();
52              if ( source.isEOF() || isLetter(c) ) break;
53          };
54          while ( !source.isEOF() && isLetter(c) ) {
55              result = result + c;
56              c = source.readC();
57          };
58          return result;
59
60      }; // readWord
61

```

```
62
63
64     /** This method closes the WordReader */
65
66     public void close ( ) {
67
68         source.close();
69
70     }; // close
71
72
73 } // WordReader
74 //xinan wang NO.5535802
```