

```

import java.util.*;
class ExternalFileIO
{
    FileInputStream in;
    FileOutputStream out;

    public ExternalFileIO( String sourceFile, String newFile )
    {
        in = new FileInputStream( sourceFile );
        out = new FileOutputStream( newFile );
    }

    public ExternalFileIO( String sourceFile, String newFile, boolean same )
    {
        in = new FileInputStream( sourceFile );
        out = new FileOutputStream( newFile, true );
    }

    public void capLetters()
    {
        System.out.println("Hello, it's: ");
        System.out.println(new Date());
        out.writeEndOfLine();
        String line;
        while ( !in.eof() )
        {
            line = in.readLine();
            System.out.println( line );
            line = line.toUpperCase();
            System.out.println( line );
            out.writeString(line);
            out.writeEndOfLine();
        }
        out.close();
        in.close();
    }

    public int countWords()
    {
        String word;
        int count = 0;
        while ( !in.eof() )
        {
            word = in.readWord();
            count++;
            //System.out.println( "word = " + word + "\t" + "count = " +
            //count );
        }
        out.close();
        in.close();
        return count-1;
    }
}

```

```

public static void main (String[] args)
{
    String source = "cities.txt";
    String target = "after.txt";
    ExternalFileIO gumby = new ExternalFileIO( source, target );
    gumby.capLetters();
    ExternalFileIO pluto = new ExternalFileIO( source, target, true );
    System.out.println( "\n\n" + "The file " + "\"" + source + "\"" +
        " contains " + pluto.countWords() + " words." );
}
}

```

"cities.txt"

San Jose is a very nice city.
 San Francisco is a very windy city.

"after.txt"

**SAN JOSE IS A VERY NICE CITY.
 SAN FRANCISCO IS A VERY WINDY CITY.**

Terminal window

Hello, it's:
 Sun Dec 16 16:46:31 PST 2007
 San Jose is a very nice city.
SAN JOSE IS A VERY NICE CITY.
 San Francisco is a very windy city.
SAN FRANCISCO IS A VERY WINDY CITY.
 Attempt to read beyond the end of the file

Attempt to read beyond the end of the file

The file "cities.txt" contains 14 words.