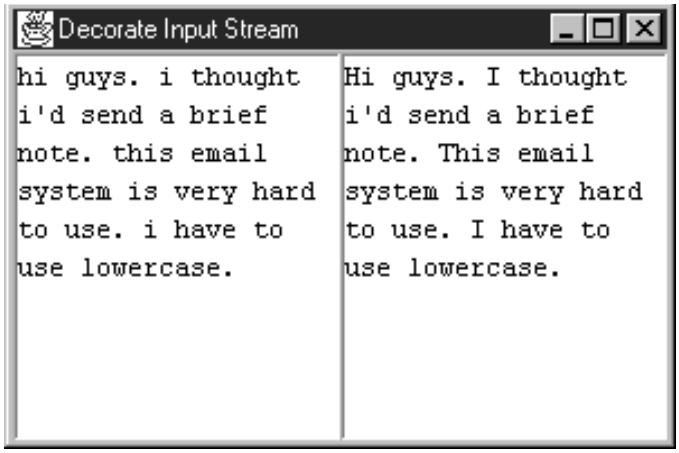

Figure 12.5 An input stream and a filtered input stream.

The left-hand stream was read with the ordinary FileInputStream class as follows:

```
private String readNormal(File fl) {
        FileInputStream fread = null;
        String s = "";
        try {
            fread = new FileInputStream(fl);
            byte b[] = new byte[1000];
            int length = fread.read (b);
            fread.close ();
            s = new String(b, 0, length);
        }
        catch(FileNotFoundException e) {}
        catch(IOException ie) {}
    return s;
    }
```

The right-hand pane was read by creating the same FileInputStream but passing it in a constructor to the FileFilter class. This class is derived from File-Filter class, where the *readLine* method simply calls the parent *read* method and then goes through the stream, inserting capitals after periods.

```
try {
        fread = new FileInputStream(f1);
        FileFilter ff = new FileFilter(fread);
        s = ff.readLine ();
        ff.close ();
    }
```