CS1400: Reading to End of File

Testing for End of File (eof)

It is not very often that you know exactly how much data will be in a file when you are writing a program. Programs have to be written so that they can read data from files of all different sizes. So, what do you do if you want to read data from a file, but you don't know how much data is in the file? In C#, the solution is easy. When you try to read past the end of a file, the ReadLine() method returns an empty string. We can test this condition by writing

```
if (inputString == null) ...
```

The following example reads integer data from a file and prints it until it reaches the end of the file.

The general algorithm for reading and processing data from a file then looks like this:

- 1. Open the File
- 2. Write a loop that
 - Using ReadLIne(), reads in a line of data and stores it in a string.
 - Checks to see if the string is null. If it is not, it does whatever processing you need to do on the data.
- 3. If it is null, drop out of the loop