

## Other Ways to Read a File

Print whole lines from an input to show the ending new line character.

See `05-03-lyrics.py`

1. `read()`  
Read entire file into a single string
2. `read(n)`  
Reads and returns a string with n characters
3. `readline()`  
Returns the next line, including `\n`
4. `readline(n)`  
Returns the next n characters of the line
5. `readlines()`  
Returns a list of strings  
One per line  
Keeps `\n`

**Example Program**

1. Prompt for input file name
2. File format:
  - a. 1<sup>st</sup> list : number of data items (an integer, n)
  - b. Followed by n lines, each is an integer
3. Displays:
  - a. Total of values
  - b. Largest
  - c. Smallest
  - d. Average
4. Sample input file

```
6
100
200
150
75
125
120
```
5. Output

```
Largest: 200
Smallest: 75
Average: 128.33
```

See `05-04-process-data.py`