## Task 2

Description – Write a program to evaluate Lines of Code in a file

Design:

* As languages differ in syntax, focus on supporting javascript and TS super set
* Realization with simple nodejs script that reads a file
* Divide into lines and analyze line by line, by matching with regex against known language structures

Planned:

No parts from previous program can be reused. Program size depends on the language(s) supported and the distinctive language features, on which a report should be generated.

* Psize = type/scale (using procedure 4D from PROBE as we dont have any historical data) 100 LOC
* Ptime coding – 2 hours
* Ptime testing – 2 hours
* Ptime total – 4 hours

Actual:

* Asize – 64 LOC
* Atime coding – 1 hours
* Atime testing – 2 hours
* Atime total – 3 hours

Defects found: 1

What – Not counting classes that have system commands infront (e.g. **export default class A**)

When – During test phase

Fix – Correct regex to not expect only whitespace chars in beginning

Time to fix – 0.1 hours

Test:

Result:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CONTENT | src/Task1/twoWayBindedList.ts | TOTAL LOC: 163 | | | | | |
|  | Comments | Classes | Functions | If statements | loops |
|  | 70 | 0 | 4 | 6 | 3 |
| % of total | Comments | Classes | Functions | If statements | loops |
|  | 42.94% | 0.00% | 2.45% | 3.68% | 1.84% |

Actual:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CONTENT | src/Task1/twoWayBindedList.ts | TOTAL LOC: 163 | | | | | |
|  | Comments | Classes | Functions | If statements | loops |
|  | 70 | 2 | 4 | 6 | 3 |
| % of total | Comments | Classes | Functions | If statements | loops |
|  | 42.94% | 1.23% | 2.45% | 3.68% | 1.84% |

After fix, the resulting and actual data was equal