**Assignment 1 – Test Plan**

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Lab Title: AC12001 Assignment 1 - Stacks

Test number/date/version: 28/01/2018

Test Notes:

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| --- | --- | --- | --- |
| **Test Description** | **Test Data** | **Expected result** | **Worked?** |
| Pop node from stack | None | Outputs empty stack message | Y |
| Pop node from an empty stack | None | Outputs empty stack message | N (Null Error) |
| Push node to stack | 1 | Node added to stack and number stored. | Y |
| Push nodes and Pop nodes | 1,2,3 | All nodes added and removed correctly | Y |
| RPN Calculation | 5,5,+ | 10 | Y |
| RPN Calculation | 3,7,2,\*,+,5,- | 12 | N (Was -12) |
| RPN Calculation | 7- | Invalid Format Message | N (Was just -7) |
| RPN Calculation | 8,8,8,8,8,8,8,8+ | Invalid Format Message | N (Was just – 16) |
| RPN Calculation | 8,8,/ | Unsupported Operator | N(Program Crash) |

Fixes made –

Popping node from empty stack – Now provides an error message and no crash

RPN Calculation showing negatives for positives. Wrong variable order. Now Correct Order

Validation Still needs to be implemented