**AC12001**

Name: …John Smith…………………………………………………………………………..

Matric number: …12345678 …………………………………………………….……….

Lab Title: …AC12001 assignment 1: Stacks………………………………..……….

Test number/date/version: 30/01/20 ……………………………………….……..

Test Notes: …Tests run on submitted assignment ……………………………

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| --- | --- | --- | --- |
| **Test Description** | **Test Data** | **Expected result** | **Worked?** |
| Push node onto an empty stack, then print node. | id=1234, mark = 56% | Code completes, node is outputted with correct data (1234, 56%). | Y |
| Push multiple nodes to a stack | Three items pushed on stack [enter data] | [output results] | Y |
| Pop node from an empty stack | none | Outputs empty stack message | N (program crashes) |
| RPN calculation | 4,6,+ | 10 | Y |
| RPN calculation | 4,6,2,+ | Outputs error as stack is not empty after answer is popped | Y |
| RPN calculation | 4,+ | Outputs RPN invalid format error. | N (program crashes) |
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|  |  |  |  |

Please note that these are just a few possible test cases. Please add more test cases such as different operators (-, \* ), invalid input in different ways such as bad characters, wrong number of operands and operators etc.