**AC12001**

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

Test number/date/version: 30/01/2020..………………………………….……..

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

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| **Test Description** | **Test Data** | **Expected result** | **Worked?** |
| Check if non-empty stack is empty | A non-empty stack | False | Y |
| Check if empty stack is empty | An empty stack | True | Y |
| Check if stack is empty after clearing | A stack which has been cleared | True | Y |
| Get size of empty stack | An empty stack | Size is 0 | Y |
| Get size of stack after pushing three elements | A stack containing three elements | Size is 3 | Y |
| Get size of stack after pushing three elements and popping one | An empty stack on which three elements are pushed and one is popped | Size is 2 | Y |
| Get size of stack after clearing it | A stack which has been cleared | Size is 0 | Y |
| Pop from non-empty stack | A non-empty stack | The first element in the stack is returned and removed from the stack | Y |
| Pop from empty stack | An empty stack | An error informing that the stack is empty | Y |
| Push to non-empty stack | A non-empty stack, plus another element to push | The element is added to the stack | Y |
| Push to empty stack | An empty stack, plus an element to push | The element is added to the stack | Y |