**AC12001**

Name: …Alessandro Cavicchioli..………………………………………………………..

Matric number: …190017234..……………….……………………………….……….

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

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

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

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