**Assessment**

**Part 3**

**Implement an ADT using a linked list data structure**

Develop the program to show a STACK abstract data type operating. You should implementan appropriate interface.

Test your code with the following test plan:

|  |  |  |  |
| --- | --- | --- | --- |
| **Test** | **Expected Output** | **Actual Output** | **Comments** |
| Check if stack is empty | Message “Stack is empty” | Message “Stack is empty | N/A |
| Add 6 integers to stack | None | None | N/A |
| List stack contents | 6 integers displayed | 6 integers displayed | N/A |
| Display number of items in stack | Message “Number of items in stack” 6 | Message “Number of items in stack” 6 | N/A |
| Remove item from stack | Message “Item removed” *display integer removed* | Message (Value) Data popped out of stack | N/A |
| List stack contents | 5 integers displayed with last entered missing | 5 integers displayed with last entered missing | N/A |