**Assignment 6**

**Stack ADT**

**Linked List Implementation**

**Description**

Write a Stack class that uses a linked list for the underlying data structure.

**Class Methods**

Canonical functions

Push - Pushes its parameter onto the top of the stack.

Pop - Removes and returns the data from the top of the stack.

Peek - Returns the element on the top of the stack.

Size – Returns the number of items currently on the stack.

isEmpty – Returns true if the stack is empty.

**Stipulations**

1. You must use the doubly-linked list class you created in Assignment 2.
2. You must throw an exception for Underflow condition.
3. The stack must dynamically grow as needed.