

Topic 12: Data Structures 3 Linked List Labs

Lab 01

Create a `Node` and `LinkedList` class as defined in the `Topic12_ExampleCode.py` file. Create a `LinkedList` object and test the `add_first()`, `add_last()`, `add_after()` and `remove_node()` methods

Lab 01

Create a method to retrieve an element from a specific position: `get(i)`

Lab 02

Create a method to reverse the linked list: `llist.reverse()`

Lab 03

Modify the previously created Linked List to include a `tail` attribute to the `LinkedList` class that points to the Node at the end of the list

Lab 04

Create a `Queue` class that implements a `LinkedList` structure and implement methods to add and retrieve items in a **FIFO** approach.

Do the same for a `Stack` class to add and retrieve items in a **LIFO** approach