

Discipline of Computing and IT
University of Newcastle

SENG1120/6120 – Semester 1, 2018
Lab 5 (Week 5)

Video guide (Node/Linked List): https://www.youtube.com/watch?v=SF6Z_n4bExQ

This laboratory continues the tasks from Lab 4 and aims at creating a linked list class.

1. Create a class `LinkedList` that uses some of the code you wrote in last week's lab, to implement a linked list-based container. The class should provide methods:

```
void add_to_head(value_type)
void add_to_tail(value_type)
void add_current(value_type)
value_type remove_from_head()
value_type remove_from_tail()
value_type remove_from_current()
void start()
void end()
void forward()
void back()
value_type get_current()
int size()
```

and constructors/destructors. Private member variables should include `head`, `tail` and `current` pointers.

2. Write a program that demonstrates the features of your `LinkedList` class.

Good Luck!