Discipline of Computing and IT University of Newcastle

SENG1120/6120 – Semester 1, 2018 Lab 6 (Week 6)

This laboratory continues the tasks from Lab 5 and aims at creating a queue class.

1. Create a Queue that has a linked list as the underlying data structure. The class should provide the methods:

```
void enqueue(value_type)
value_type dequeue()
value_type& front()
int size()
and constructors/destructors. Private member variables should include:
LinkedList data, and
int used
```

- 2. Write a program that demonstrates the features of your Queue class by storing integers and strings in two different instances of Queue.
- 3. Convert your Queue class into a class template. You will need to convert LinkedList and Node to achieve that, as well.

