Lab Test 3 (Monday, March 13, 2017)

Task 1 (2 Marks)

- Download and install the slack app for android\ios.
- Sign in to the DSA class using the following url –

https://iium-dsa-s17.slack.com

Task 2 (8 Marks)

- 1) Download the file "LabTest3.zip" from slack.
- 2) Type the following two code snippet in the appropriate files.

Filename: Queue.h

```
2 #define OUEUE H
   #include "DList.h"
 5
   template<class T>
   class Queue : public DList<T> {
 8
       public:
 9
           Queue(){
10
11
12
13
           void push(T value) {
14
                this->push back(value);
15
16
17
            T pop() {
18
                return this->pop front();
19
20 };
21
22 #endif
```

Filename: Stack.h

```
2 #define STACK H
 4 #include "DList.h"
 5
 6 template<class T>
   class Stack : public DList<T> {
 8
       public:
 9
           Stack(){
10
11
12
13
           void push(T value) {
14
                this->push back(value);
15
16
17
           T pop() {
18
                return this->pop back();
19
20 };
21
```

3) Now in the "main.cpp" file create a Queue and a Stack then insert 10 names into both in same order. Then without using display function print out all the elements of both containers.