

# SENG2200/6220 –Programming Languages & Paradigms

## Computer Lab for Week 9, Semester 1, 2020

### **Objectives**

This lab aims to build the understanding of parameter passing mechanisms.

### **Questions**

1. Answer the self-quiz week 08.
2. Explain the difference between pass-by-value and pass-by-reference parameter passing.
3. Does Java support “pass-by-reference” in anyway?
4. What sort of parameter passing does C++ use?
5. What is the difference between a reference parameter and a const-reference parameter in C++? When should a const-reference parameter be used in preference to a reference parameter?
6. What is the output of the following program?

```
public class Test {
    protected int value = 0;
    public static void test(Test test) {
        test.value = 1;
        test = null;
    }
    public static void main(String[] args) {
        Test test = new Test();
        System.out.println(test.value);
        test(test);
        System.out.println(test.value);
    }
}
```

7. What is the output of the following program?

```
#include <iostream>
using namespace std;

void testing(int test[]) {
    test[0] = 7;
}

int main() {
    int test[2];
    test[0]=0;
    test[1]=1;
    testing(test);
    cout << test[0] << " " << test[1] << endl;
}
```