# 2040 Lab 2 – Answer Document

## Part 1 - Function Calls

3. What was the error, and how did you fix it?

None

#### 4. Screenshot the output

```
/home/onel/git/COIS2040/Lab-2/main
The value of c is: 15
```

Process finished with exit code 0

# 5. Screenshot the output

```
/home/onel/git/COIS2040/Lab-2/main
```

The value of c is: 15

The value of d is: 30

# Part 2 – Optional Parameters

#### 2. Screenshot the output

```
/home/onel/git/COIS2040/Lab-2/main
The value of c is: 15
The value of d is: 30
The value of d is: 15
```

#### 3. Why does this work?

```
int AddThreeOrLess(int a = 0, int b = 0, int c = 0){}
```

There are three optional parameters. In our case, a and b are assigned the given values, while c is not provided and, therefore c is automatically set to 0.

## 6. Screenshot the output

```
/home/onel/git/COIS2040/Lab-2/main
The value of c is: 15
The value of d is: 30
The value of d is: 15
The value of num3 is: 11.1
```

# 7. Why does this work even though num3 is a double and addTwo returns an integer?

The addTwo() function is overloaded, there are two different versions of the function one for integers and one for double.

### Part 3 – Void Functions and Function Identifiers

## 1. Why does this generate an error

The function finalMessage() is defined after the main method.

I fixed the defining finalMessage() before the main method.

# 3. Screenshot the output

```
F
  void finalMessage();
  int main() {
      int a = 10;
© main.cpp ×
/home/onel/git/COIS2040/Lab-2/main
The value of c is: 15
The value of d is: 30
The value of d is: 15
The value of num3 is: 11.1
Thank you for using this program, hope you learned lots!
Process finished with exit code 0
```