Lab Report 15

# Problem

This lab wants us to create a program that will have the user enter details about two books (title, author, publisher, number of copies sold, and year of release). Then, the program should print those out and compare them to test whether they are equal.

# Proposed Solution

1. Create a default object
2. Print the default object
3. Have the user enter values for the first book
4. Create the first book object using the entered values
5. Print the first book
6. Have the user enter values for the second book
7. Create the second book object using the entered values
8. Print the second book
9. Compare the two books
10. Print out whether they are equal or not

# Tests and Results

The program will calculate for errors and the program equals method works for true and false.

# Problems Encountered

Creating the equals method was a bit tricky; however, I figured out that I just needed to replace the +’s with &&’s in the return statement.

# Conclusions and Discussion

Other ways to solve it could be to not use a parameterized constructor at all or to use a copy constructor for the equals method.

# Additional Questions

1. What is the purpose of a default constructor? The purpose of the default constructor is to give access to the private variables.

2. Can we use the == operator to test the equality of any 2 variables of class type? Why/ Why not? No, you must use an equals method that the programmer needs to create because using the == method would always be false since the program would read the internalized values rather than the inputted values.