CS1428 Lab 4

# Name: Section

1. (20pt) Write the answers to the questions below on this worksheet. Assume all variables have been declared.
   1. Write an **if statement** that assigns 100 to x when y is equal to 0.
   2. Write an **if/else statement** that assigns 0 to x when y is equal to 10. Otherwise it should assign 1 to x.
   3. What would the output be of the following code?

Assume **grade** is equal to 87.

if (grade > 90);

cout << “Congratulations! You passed this course…” << endl;

cout << “Check your other scores? ” << endl;

Can you find any error in the above code? If so, what is the error?

* 1. Assume the variables a = 2, b = 4, and c = 6. Circle T or F for each of the following conditions:

1. a == 1 T F
2. 6 <= c T F
3. 2 != c T F
4. b > 4 T F
5. (20pt) The following program is used in a bookstore to determine how many discount coupons a customer gets. Complete the table that appears after the program.

#include<iostream>

using namespace std;

int main()

{

int numBooks, numCoupons;

cout << “How many books are being purchased?”

cin >> numBooks;

if (numBooks < 1)

numCoupons = 0;

else if (numBooks < 3)

numCoupons = 1;

else if (numBooks < 5)

numCoupons = 2;

else

numCoupons = 3;

cout << “The number of coupons to give is ” << numCoupons

<< endl;

return 0;

}

**If the customer purchases**

**this many books This many coupons are given.**

1

2

3

4

5

10

1. (60pt) Open **lab4.cpp** and complete the program (Save your file as **lab4.cpp**).

**Note:** *Read the documentation above the program first before you commence programming.*

*Ensure that you understand what the program is supposed to do and what output the program is expected to give*

* + **Staple** a copy of the source file to thisworksheet.
  + **Upload** your source file **lab4.cpp**.