**CS 3173 Assignment 4 14 points**

**chapter 4**

**Due 9/23**

**Email your homework to me at** [**harringp@nsuok.edu**](mailto:harringp@nsuok.edu)

**Part 1: Problem Solving: Type your answers (7 points):**

1. Write the truth table for the following logic gate circuit representations:

A B A and B A or B (A and B) and (A or B) (A and B) or (A or B)

T T T T T T

T F F T F T

F T F T F T

F F F F F T

1. Write the truth table for the following logic gate circuit representations:

A B A and B A xor B (A and B) xor (A or B) (A and B) xor (A xor B)

T T T F F T

T F F T T T

F T F T T T

F F F F F F

**Part 2: Java Programming (7 points):**

Write a Java program to use the Boolean data type for A and B and get input from the user.

Use if-else statements representing the four logic gates in problem 1 above:

A and B A or B (A and B) and (A or B) (A and B) or (A or B)

Be sure to use java **&&** to represent **and**, use java **||** to represent **or**.