CLAD Homework 1 Questions
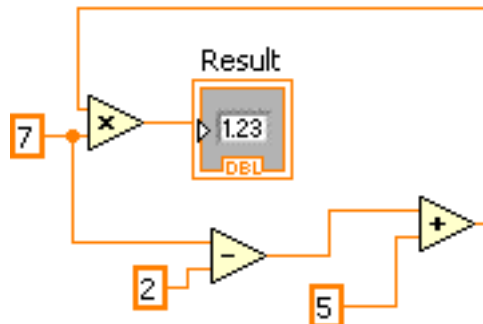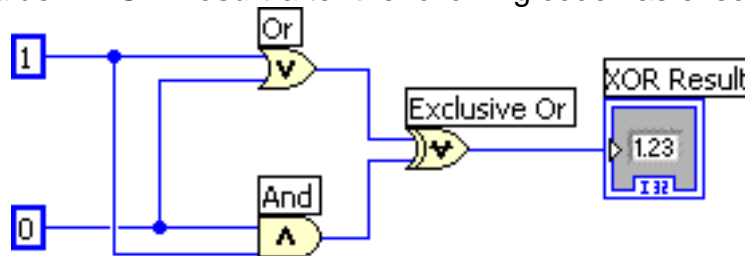
1. In the figure below, what will Result equal when this calculation is executed?

   a. 55
   b. 70
   c. 65
   d. Indeterminate

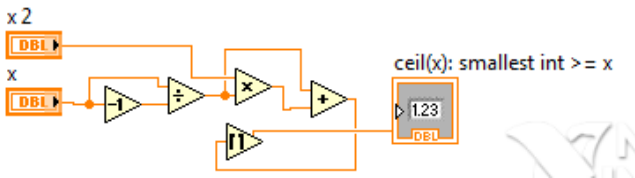2. What is the value in **XOR Result** after the following code has executed?

   a. 0
   b. 1
   c. True
   d. False

3. It is possible to have two VIs of the same name in a project, as long as:

   a. They are contained in separate virtual folders
   b. One of the two is a dependency
   c. They cannot exist in the same project

4. In the following VI, what will be the execution order of functions?

a.

b.

c.

d.

5. Which of the following is the best method to update an indicator on the front panel?

    a. Use a Value property node
    b. Wire directly to the indicator terminal
    c. Use a local variable
    d. Use a functional global variable

6. A coercion dot indicates that:

    a. The data types are consistent
    b. A polymorphic operation will be performed on the data
    c. A data buffer is created to handle data conversion
    d. Data values are being coerced because they are out of range

7. What mechanical action of a Boolean would you use to mimic a button on a Windows dialog?

    a. Switch Until Released
    b. Switch When Released
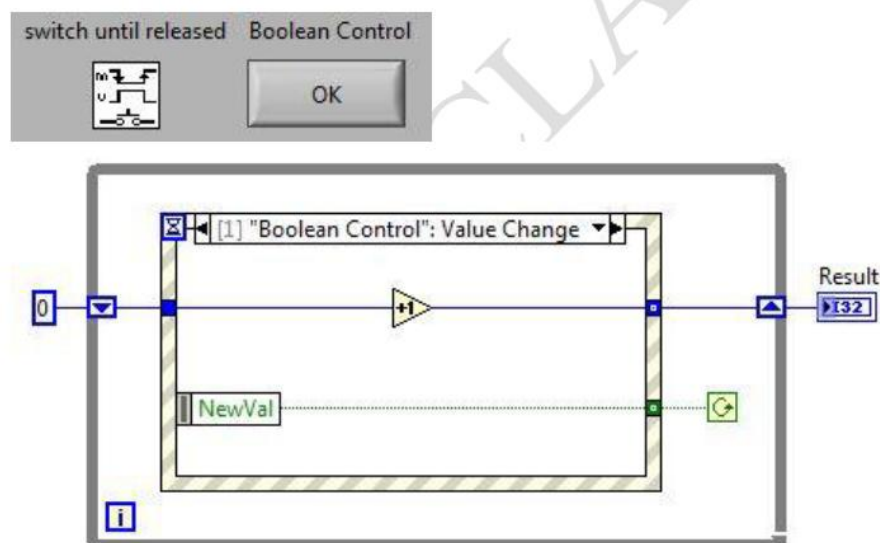   c. Latch Until Released
    d. Latch When Released

8. Which of the following statements is true regarding the use of Coercion Dots?

    a. Coercion Dots improve program performance.
    b. Coercion Dots represent a conversion from one data type to another.
    c. Coercion Dots increases memory usage
    d. Both A. and B.
    e. Both B. and C.

9. Why is LabVIEW a data flow programming language?

    a. It uses icons instead of text to create applications
    b. The flow of data through nodes on the block diagram determines execution
    c. It does not have a Goto function to control execution
    d. The memory location in which data is stored changes each iteration

10. While the VI executes, the user presses and then releases Boolean Control with Switch Until Released mechanical action. Assuming that the starting value of Boolean Control is FALSE, what value does the Result indicator display after execution?

    a. 0
    b. 1
    c. 2
    d. 3