CLAD Homework 6 Questions

1. Which of the following does not conform to data flow programming paradigm?

    a. Shift Registers
    b. Tunnels
    c. SubVIs
    d. Local Variables

2. You have a front panel control on a top-level VI that you must control from within a subVI. What must you pass to the subVI?

    a. The control's properties
    b. The control's methods
    c. The control's reference
    d. The control's data type

3. Which chart update mode should be used to show running data continuously scrolling from left to right across the chart?

    a. Strip Chart
    b. Scope Chart
    c. Sweep Chart
    d. Step Chart

4. The Error list shows all of the following EXCEPT:

    a. Items with errors
    b. Errors and warnings
    c. Details about the warnings
    d. Error Codes

5. What VI is typically used to terminate an Error Cluster wire and to display any error message?

    a. Merge Errors
    b. One Button Dialog/Two Button Dialog
    c. Generate Front Panel Activity
    d. Simple Error Handler

6. Which variable is commonly used to eliminate race conditions by preventing simultaneous access to code or data?

    a. Functional global variable
    b. Local variable
    c. Global variable
    d. Shared variable

7. Which of the following will allow you to have multiple plots on a Waveform Graph?

    a. Bundle two 1D arrays of X and Y data together for each plot. Then build an array of these clusters and wire it to the Waveform Graph indicator.
    b. Build a 2D array of data with each plot in a separate row (or column) in the array, then wire the array to the Waveform Graph indicator.
    c. Bundle the elements of each waveform into a cluster and build an array of these clusters, then wire the array to the Waveform Graph indicator.
    d. Both B. and C.

8. In what instance would you use the Probe tool rather than Highlight Execution?

    a. To see the flow of data
    b. To see the value of a wire in real-time
    c. To look into a SubVI, as the process is running
    d. To slowdown the VI and show data values in wires

9. The following breakpoint does which of the following:

    a. Causes the VI to abort
    b. Causes the VI to pause
    c. Causes the VI to single step over the addition
    d. Causes the VI to single step over the indicator

10. You have a control on the front panel of a VI and you need to modify one of its properties at run time. Which of the following is the best approach you would take?

    a. Create an implicit property node and select the property to modify
    b. Create a control reference, pass the reference to a property node and select the property to modify
    c. Create a linked shared variable and select the property to modify the property
    d. Create a local variable and select the property to modify