PLC 210 Hands-On Assessments: Module 5

Student Name: __________________________   N# _______________   Date: __________

This hands-on assessment requires that each student successfully demonstrates each of these tasks to the instructor’s satisfaction. There is no grade for this assessment.
Prior to taking this assessment, the student must pass (minimum of 80%) the Knowledge and Application Assessment.
The student cannot proceed to the HOA for the next module without completing this HOA

Note: Be specific in answering questions on the types of Tasks and Programs.
Be specific in answering questions on Property information of Tasks and Programs.
Be specific in answering questions on processor execution of Tasks and Programs.

Download the project file HOA_Module_5.ACD to the CompactLogix demo.
Ensure all demo inputs are OFF / False – Selector Switches turned to left.
Place processor in RUN mode

1. How many Tasks are included in the Project File?
   List the Task’s Name:
   Which type of Tasks are included in the Project File:
   List the Tasks as to Priority configuration:
   Highest Priority Task: ______________________
   ______________________
   ______________________
   ______________________
   Lowest Priority Task: ______________________
   When the processor is put in RUN Mode, which Task starts running first: _______

2. Navigate to the B2_Routine1
   The B2_Routine1 is included in which Task?
   What is the Task Type?
   The B2_Routine1 included in which Program?
Is the processor scanning this routine?______________________________

Explain:________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________

What is the Scope of the Time1 tag?______________________________
Is the tag Time1 a Controller Tag or Program Tag? __________
What is the Scope of the Local:2:1.Data.1 tag?______________________
Is the tag Local:2:1.Data.1 a Controller Tag or Program Tag? __________

3. Navigate to the A1_R1 routine
The A1_R1 routine is included in which Task?______________________________
What is the Task Type?________________________________________
The A1_R1 routine included in which Program?______________________
Is the processor scanning this routine?____________________________
How often is the processor scanning to the A1_R1 routine?______________
Explain:________________________________________________________________________
________________________________________________________________________________

What is the Scope of the Tag1 tag?______________________________
Is the tag Tag1 a Controller Tag or Program Tag? __________
What is the Scope of the Tag2 tag?______________________________
Is the tag Tag2 a Controller Tag or Program Tag? __________
Modify the Task’s Properties so the A1_R1 routine is scanned every 10 seconds.

4. Navigate to the D4_R1 routine
The D4_R1 routine is included in which Task?______________________________
What is the Task Type?________________________________________
The D4_R1 routine included in which Program?______________________
Is the processor scanning this routine?____________________________
Hint: Toggle int1 tag True - ON
When will the processor scan to the D4_R1 routine?______________
Explain:________________________________________________________________________
________________________________________________________________________________

What is the Scope of the Timer1 tag?______________________________
Is the tag Timer1 a Controller Tag or Program Tag? __________
What is the Scope of the int1 tag?______________________________
Is the tag int1 a Controller Tag or Program Tag? ___________

5. Navigate to the B2_R1 routine
   Toggle SS4 ON – turn to right
   Return to the D4_R1 routine
   Is the processor scanning this routine?______________
   Hint: Toggle int1 tag True - ON
   When will the processor scan to the D4_R1 routine?_____________
   Explain:___________________________________________________
   ___________________________________________________________
   ___________________________________________________________
   ___________________________________________________________
   Return to the B2_Routine1 routine.
   Is the processor scanning this routine?______________
   Explain:___________________________________________________
   ___________________________________________________________
   ___________________________________________________________

6. How many Programs are included in the B2 Task?________
   What are the Program’s Names?
   ________________________________
   ________________________________
   ________________________________

   In which order are the Programs being executed (run) by the processor?
   First: ________________________________
   Second: ________________________________
   Third: ________________________________
   Where can the Program’s order of execution be modified?
   Explain:___________________________________________________
   ___________________________________________________________
   ___________________________________________________________
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