

Exercise 7-1

Initializing and closing DAQ module

Task: Complete gaps in the application code to initialize and close DAQ module
Use Bookmark manager to navigate through tasks in the application

7-1.1 Update PLC code to initialize DAQ module on application start (Fig. 1):

Add **Init DAQ.vi** from DAQ library into **Initialize** case of PLC

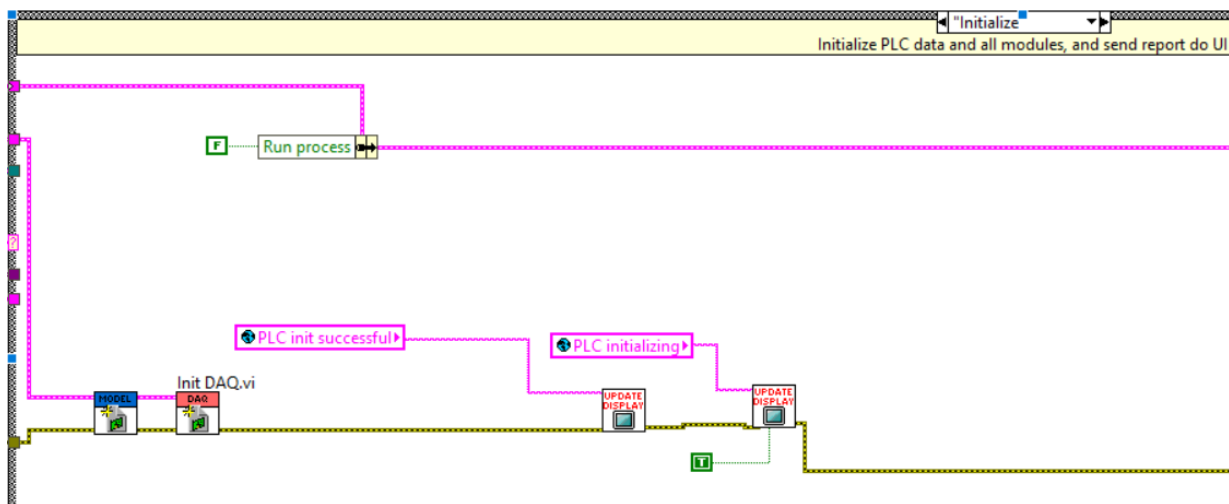


Fig. 1. Initialize case of PLC module

7-1.2 Update Init DAQ.vi (Fig. 2):

- Add *Initialize* message to be enqueued to DAQ module
- Connect **DAQ notifier** to **Wait on notification** function

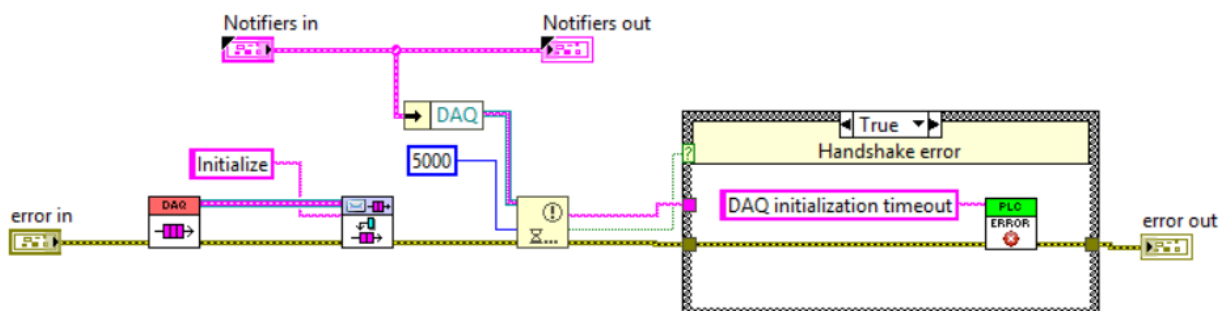


Fig. 2. Init DAQ.vi code diagram

7-1.3 Update PLC code to close DAQ module on application exit (Fig. 3):

Add **Exit.vi** from DAQ library into **Exit** case of PLC

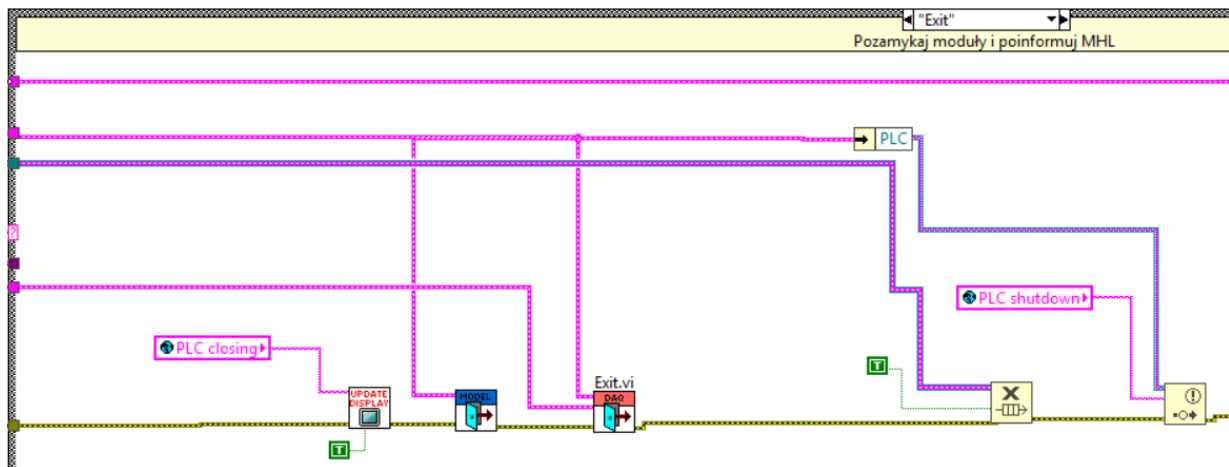


Fig. 3. Exit case of PLC module

7-1.4 Update Exit.vi from DAQ library (Fig. 4):

- Add *Exit* message to be enqueued to DAQ module
- Enqueue this message as a priority message (Tip: **True** constant)
- Connect *DAQ module closed* string to **Update Display.vi** API

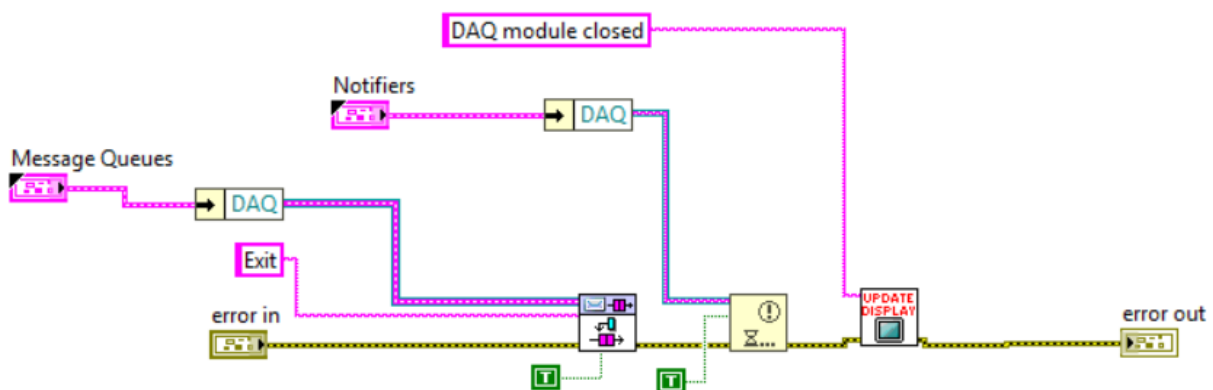


Fig. 4. Exit.vi code diagram