Exercise 8-1
Data file preparation

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

*For every process, a new data file will be created. The file should have an unambiguous filename e.g. containing precise date and time of creation. Data files should be saved in the folder **data** in the main application directory.*

8-1.1 Set path to folder data. If the folder does not exist, create it (Fig. 1):

a) Open **Get Folder.vi** from Logger library and set path to **Application folder\data** folder

b) use **Check if File or Folder Exists.vi** to check the path

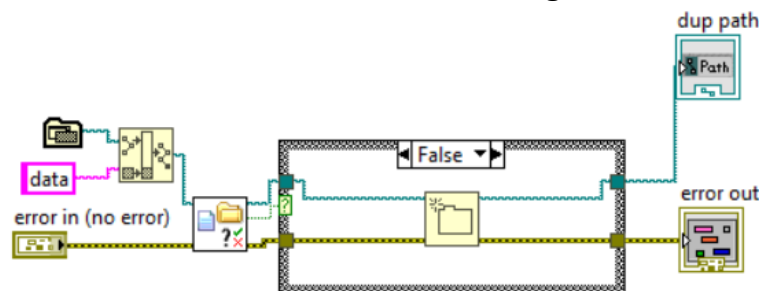c) if the folder does not exists, create it using **Create Folder** function

Fig. 1. Get Folder.vi code

8-1.2 Set path to data file:

Open **Create Path.vi** from Logger library and update the code according to Figure 2 to set the path to file with a filename **YYMMDD HH-MM-SS.tdms** located at the **data** folder
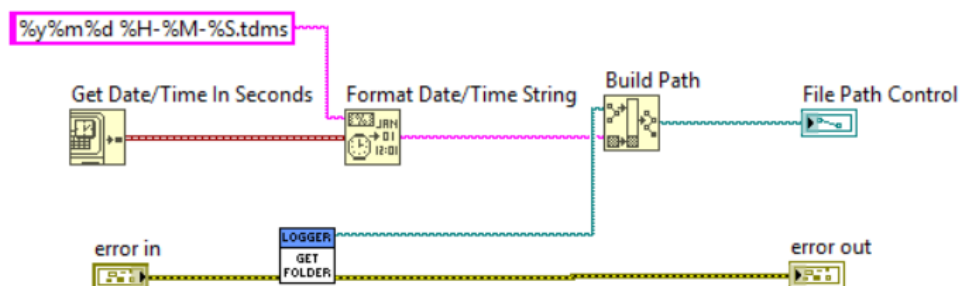

Fig. 2. Create Path.vi code

*When the process starts, PLC module calls Open Log state of the Logger module. In this state, create a new data file and change default **Idle** state to **Working** state.*

8-1.3 Update Open Log state of the Logger module (Fig. 3):
   a) Add **Create Path.vi** from Logger library
   b) use the path to **open or create** TDMS file
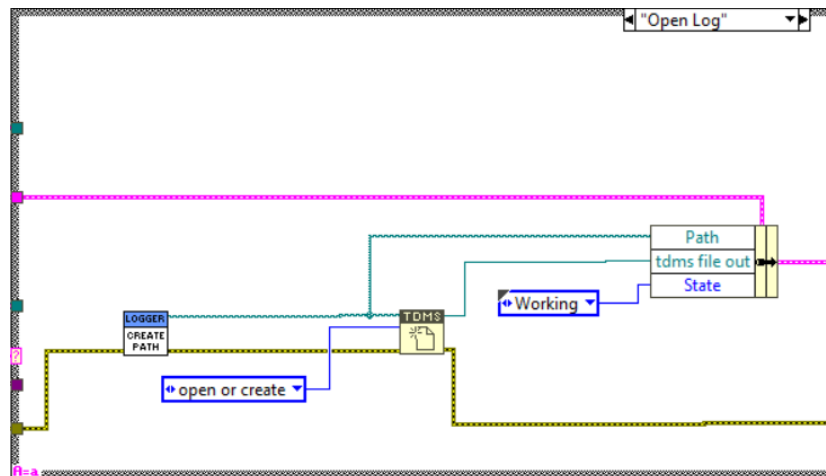   c) use **Bundle by Name** node to store path and file reference in Log data
   d) set the Logger module state to **Working**

Fig. 3. Logger module – Open Log state