You will use Eclipse for this lab.

The goal of this lab is to input a degree value, for example, 90 degrees, and have the motor rotate precisely 90 degrees.

Lab 3 files will explain how to create a project

Use the Lab 3 template file **C_Support_for_myRIO_v6.0.zip**

1. You must copy and use the following template files from **myRIO Example - AIO**
   a. **AIO.c**
   b. **AIO.h**
   c. **main.c**
2. Before starting your lab, or at the moment you suspect your Quanser motor does not work properly, run "**testmotor**" in an SSH terminal to test it to make sure your motor works properly. **Read the lab 10 Slides.pdf**
3. To specify command line arguments or command line parameters:
   a. Specify the command line parameters in Eclipse: go to Run as -->Run Configurations, then on the "Arguments" tab, specify your command line parameters. Separate the parameters by spaces.
   b. Specify the command line parameters in an SSH terminal: Run the program with Eclipse once without specifying the parameters. Then log on your myRIO and navigate to the working folder and find the binaries (with the name you have specified in the Run Configurations) that has been downloaded to the myRIO. In the terminal, run your program with the command line arguments.
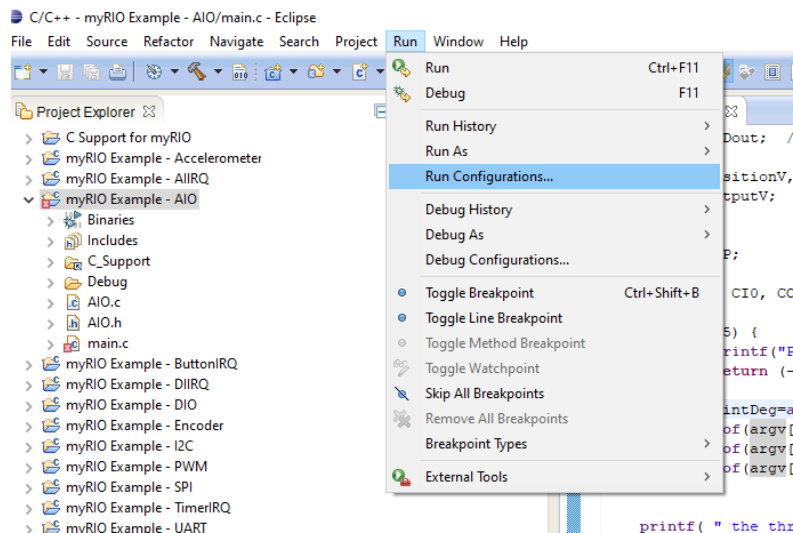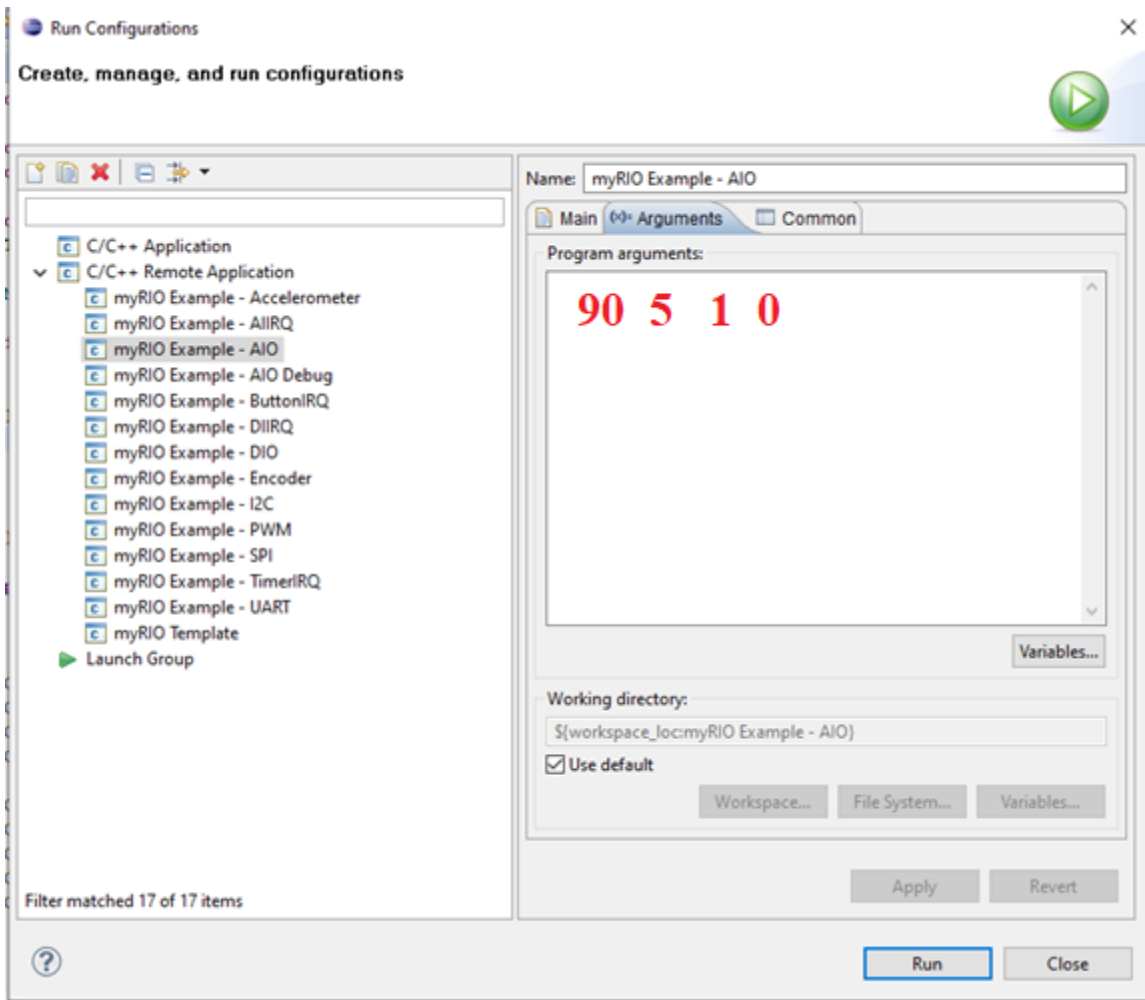
4. In case your motor is out of control during the lab:
   a. if your control program has finished but the motor keeps running, use the "stop" utility in an SSH terminal to stop the motor (type "**stop**" without the quotation marks and hit Enter).
   b. If the program is running in Eclipse, click the red square to stop your control program, and then in an SSH terminal to stop the motor.
   c. If your control program is running in a terminal, use **CTRL+C** to stop your program, and then use "stop" to stop the motor.