Lab 9: Quadrature Encoder

Click here to refer to documentation related to the quadrature encoder.

1. Declare a global variable named **q_enc**. This variable will store the current value of the quad encoder and ***must be updated in real-time and used inside your programming***.

2. Write a program that…
   a. Turns on the flashlight only when the value of the quad encoder reaches 400 in either direction.
   b. Turns on the LED only when the value of the quad encoder reaches 500 in either direction.

3. Write a program that…
   a. Spins the right motor forward at full speed until the value of the encoder reaches 550 in either direction.
   b. Spins the left motor in reverse at half speed until the value of the encoder reaches 700 in either direction.