For this assignment you will modify the AWS MQTT publishing demo. Because you imported the project, I don’t recommend copying it. Make the changes in place and be sure to describe the changes you make with a comment containing your initials (so you can search for the changes). This should allow you to revert back to the original code by searching for your initials and undoing the changes per your description. I will be looking for this level of change documentation in your assignment submission.

To get you used to modifying someone else’s code, you are being given minimal instructions. You will need to be resourceful to determine where to make the changes to the demo code.

Make the following modifications and test them using the AWS IoT Test feature:

* Instead of publishing 10 bursts containing 2 messages each, publish 4 bursts containing a single message each.
* Change the top-level topic from “iotdemo” to “USD\_422”.
* Change the message payload from “Hello world <number>!” to “USD 422 Message: <number + 1>”. This involves changing the payload format string and the value that is the argument for the payload format string.
* Change the four sub-level topics from “/topic/1”, “/topic/2”, etc. to “/topic1”, “/topic2”, etc.
* Document changes to the code with a comment like: “SLB – change description”
* Put name in header comments at the top of ant module that is changed.

To TEST: AWS IoT > Test > Subscription topic “USD\_422/#” > Subscribe to topic

When you use the AWS IoT Test feature to see the messages that your development board, subscribe to the topic “USD\_422/#”. The combination of the last two changes results in the topic number matching the message number when you observe the messages.

**This assignment must be emailed to tlupfer@sandiego.edu by midnight on Sunday, November 1st.**

**Make sure your name appears in the module comments at the top of the C source and header files you modify.**

**Create a zipfile containing the C source and header files you modify.**

**You should attach a single file named:  
  
 *lastname08.zip*  
  
In other words, my file would be named *lupfer08.zip***