Frank Martino - Q2.3 Experimental Measurements and Personal Instrumentation

Prove your skill set using ONE of the following: M1K board, Analog Discovery Board, or M2K board.

Q2.3 Measuring DC current through a resistor

I can build a resistive circuit and measure the dc current through ONE resistor using a dc source (OR find another way if needed depending on board i.e. Math function on oscilloscope!).

For this part of the proof of skills I used the circuit for Q2.2 which had a $1k\Omega$ resistor that connected to two resistors in a parallel formation, one $6.8k\Omega$ resistor and the other $1.5k\Omega$ resistor. As mentioned in the previous response and copied below for convenience, I connected all of the pins from the ADALM1000 to the breadboard. I was then able to use the program to set the voltage to 3.0 volts which gave a current of 1.55 mA (image shown below).

Part of Q2.2: Once I finished this I connected the AIN lead and A channel to the first pin on the $1k\Omega$ resistor. Then, I connected the ground pin to the joint where all of the resistors connect to. Finally, I connected the Channel B pin to the end of the circuit as labeled below.



