Quiz 1.A – Practice Quiz

1. List your inputs on the following settings of the waveform generator and oscilloscope in order to output and display a 10 kHz sine wave with a maximum value $V_{\text{max}} = +2$ V and a minimum value $V_{\text{min}} = 0$ V.
   a. Waveform generator
      - Waveform:
      - Frequency:
      - Amplitude Vpp:
      - Offset:
      - Channel Load “impedance”: **Set to 50 $\Omega$** OR **Set to High Z**
   b. Oscilloscope
      - Vertical scale, V/div:
      - Horizontal scale, time/div:
      - Trigger level:

2. The power supply is set to a voltage limit of 20 V and a current limit of 0.1 A. The multimeter is configured to measure the output current of the power supply. The outputs are connected to a variable load resistor. Answer the following questions.
   a. Using the pictures below, draw in the required connections between the power supply, multimeter and the load (draw the load as a two terminal resistor). The resulting current measurement should show positive current.
   
   ![Waveform Generator](image1.png)  
   ![Oscilloscope](image2.png)

   ![Multimeter](image3.png)

   b. List the instrument display outputs if the load resistor is 100 $\Omega$
      - Power supply voltage:
      - Power supply current:
      - Multimeter current: