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- 1- Based on the provided example send the following values for voltage and frequency
    - a. Send data frame that contains the value  $2200 \angle 30$
    - b. Send a random value for the frequency (49.9-50.1)
  - 2- Build a configuration frame that takes into consideration the following parameters
    - a. 6 phasors (3 for voltage and three for current)
    - b. Name the PMU is my new pmu
    - c. Name of voltage phasors, voltage1, voltage2, voltage3, and current1 current2 and current3
    - d. Phasor Data should be sent using rectangular format using float (32 bit)
    - e. The nominal frequency is 50 Hz
    - f. Data rate 25 frame per second
    - g. Give reasonable values for other fields

Then:

    - a. send voltage with random values between 13000,  $\pm 1\%$  and phase shift between -30 to 30
    - b. Send current with random values between 150,  $\pm 1\%$  and phase shift between -30 to 30
    - c. Include the time (UTC) in the data frame, use the time of the PC.
    - d. Repeat the sending of data packets with a delay of 40 ms