

Embedded Week 5 Assignment

Problem statement:

PART A:

1. You will use three pins of esp32 lets say A, B and C.
 - First You need to pull up these three gpio using internal pull up.
2. After that, When Pin A is grounded DAC will produce a **Sawtooth waveform**.
3. When Pin B is grounded DAC will produce a **Square Waveform**.
4. When Pin C is grounded DAC will produce a **Sine Waveform**.

PART B:

1. Observe the waveform produced by **DAC** on any one of the **ADC 1 Channel**.
(Share all three measured waveforms on g class)
2. Measured Waveform should have range between 0 - 3.3V (i.e you need to convert raw readings into voltage)

PART C (Optional):

1. Instead of using ADC 1 channel use any one of the ADC 2 channels with esp32 connected to **WIFI**.
2. Try observing waveform produced by dac with different attenuation of ADC channel such as **0 dB and 6 dB**