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DSP LAB 1 - ADC

# Task 1

First task is to get to know about ADC, sampling. STM32 was set such that it have 50kHz sampling rate. Than 3 waveforms was generated ant sampled data was ploted.

1 kHz

10kHz

At 40 kHz

Used code:

uint16\_t adcBuffer[256];

**void** **HAL\_ADC\_ConvCpltCallback**(ADC\_HandleTypeDef\* hadc)

{

**static** uint8\_t index = 0;

adcBuffer[index++] = HAL\_ADC\_GetValue(&hadc1);

}