

ADC

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Simple ADC - Goals

- A. Read the voltage at ADC0 and display the 8 MSbits on LEDs RA4 ... RA7
 - Configure the uC (ADC module, ...)
 - Acquire the voltage
 - Display it using the 4 LEDs connected to RA4 ... RA7
- Hints
 - Read the datasheet
- B. Read the content of ADRES in different wiper positions
- C. (Optional)
 - Version A – Polling
 - Version B – Interrupts

Optional (ADC + PWM)

- Modify the duty cycle of the PWM output (10kHz) according to the input voltage at AN0