A/D module

- **Exercise 4.1.** Write a program that digitizes two analogue signal inputs connected to channels AN0 and AN2, and displays their values (the 8 most-significant bits) in 8 LEDs connected to PORTB: the digital value associated to AN0 if RC1 is '0' and the digital value associated to AN2 if RC1 is '1'. RC1 pin of the microcontroller will be connected to a switch in the PICSchool board. Value of PORTB must be updated with the result of a conversion at 10 Hz. The AD converter must be configured with reference voltages $V_{REF+} = V_{DD}$ and $V_{REF-} = V_{SS}$.

  In order to generate an analog signal, use the potentiometers in the PICSchool board as indicated in the Figure.