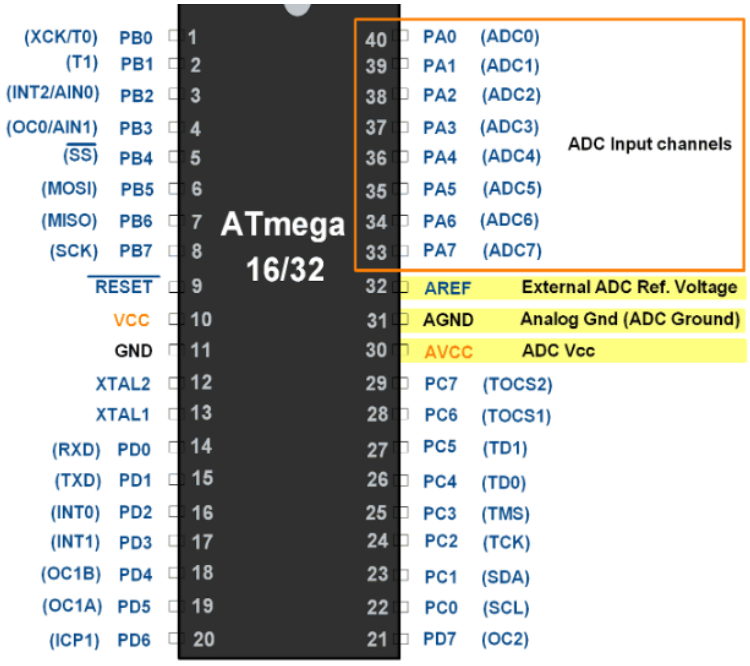
ADC:



ADC Register

In AVR ADC, we need to understand four main register -

1. **ADCH:** Holds digital converted data higher byte
2. **ADCL:** Holds digital converted data lower byte
3. **ADMUX:** ADC Multiplexer selection register
4. **ADCSRA:** ADC Control and status register

Write Embedded C code using ATmega16 µC to update 2x16 LCD Display by LM35 Temp sensor readings.

Requirements:

- Configure the µC control with internal 1Mhz Clock.
- Connect the LCD Data Path to PORTC.
- Connect the “RS” LCD pin to PD4.
- Connect the “R/W” LCD pin to PD5.
- Connect the “E” LCD pin to PD6.
- Temp Sensor connected to ADC Channel 0.
- This message always exist on LCD:
  “Temp = x C”
  x is the temperature value got from temp sensor.