```
program ADC_on_LEDs
dim temp_res as word

main:
  ANSEL  = 0x04                 ' Configure AN2 pin as analog
  ANSELH = 0                    ' Configure other AN pins as digital I/O
  C1ON_bit = 0                  ' Disable comparators
  C2ON_bit = 0

  TRISA  = 0xFF                 ' PORTA is input
  TRISB  = 0                    ' PORTB is output
  TRISC  = 0                    ' PORTC is output

  while (TRUE)
    temp_res = ADC_Read(2)      ' Get 10-bit results of AD conversion
    PORTB = temp_res            ' Send lower 8 bits to PORTB
    PORTC = word(temp_res >> 8) ' Send 2 most significant bits to RC1, RC0
  wend
end.
```
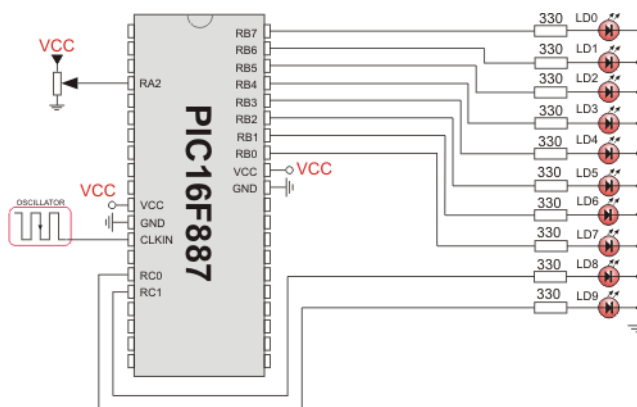
HW Connection

ADC HW connection