/\*

\* Project name:

ADC\_on LEDs (Display the result of ADC on LEDs)

\* Copyright:

(c) Mikroelektronika, 2012.

\* Revision History:

20120116:

- initial release (FJ);

\* Description:

A simple example of using the ADC library.

ADC results are displayed on PORTC.

\* Test configuration:

MCU: PIC18F87K22

http://ww1.microchip.com/downloads/en/DeviceDoc/39960b.pdf

Dev.Board: EasyPIC PRO v7 - ac:ADC

http://www.mikroe.com/easypic-pro/

Oscillator: HS 16.0000 MHz, 16.0000 MHz Crystal

Ext. Modules: None.

SW: mikroC PRO for PIC

http://www.mikroe.com/mikroc/pic/

\* NOTES:

- Turn on PORTC LEDs on SW6.3. (board specific)

- To simulate analog input on ADC channel 0, use on-board potentiometer P2

and place jumper J5 to MCU pin corresponding to ADC channel 0 input. (board specific)

\*/

#include <built\_in.h>

unsigned int adc\_rd;

void main() {

ANSEL0\_bit = 1; // Configure RA0 pin as analog

TRISA0\_bit = 1; // Set RA0 pin as input

TRISC = 0x00; // Set PORTC as output

while (1) {

adc\_rd = ADC\_Read(0); // Get 10-bit results of AD conversion

LATC = adc\_rd >> 4; // display eight most signifficant bits

}

}