```c
#include "drivers.h"

static uint16 volatile index = 0, adc_value[5];
static const int16 adc_chan_list[] = { ADC_SE7, ADC_SE8, ADC_SE9, ADC_SE10, ADC_SE11 };

#pragma diag_suppress=Pa079
static void adc_callback (ADC_CALLBACK_TYPE type, uint16 result)
{
  if (type == CHA_CALLBACK)
  {
    adc_value[index]= result;
    ADC_Start(CHA, adc_chan_list[++index % 5]);
  }
}

void main (void)
{
  SIM_EnableModule (ADC);
  ADC_Init (ADC_MODULE_16B_SWTRG_XREF_CONFIG,
            HWAVG_32,
            ADC_CH_SE_IRQ_CONFIG(adc_chan_list[index]),
            ADC_CH_DISABLE_CONFIG,
            ADC_CH_DISABLE_CONFIG,
            ADC_CH_DISABLE_CONFIG,
            PRI_LVL1, adc_callback);
  EnableInterrupts ();

  while (1);
}
```