```
#include "msp.h"
#include "My_LEDS.h"
* main.c
#define DELAY100MS 100000 * 1// DELAY * 1 mS assuming 3 MHz clock
int main(void)
   WDT_A->CTL = WDT_A_CTL_PW | WDT_A_CTL_HOLD; // watchdog
   // Blink RED LED to show code is running
   setup_RED_LED();
   // Set up Pin 2.5 as IO
   P2->SEL1 &= ~BIT5;
   P2->SEL0 &= ~BIT5;
   // set P2.5 as input with pulldown resistor
   P2->DIR &= ~BIT5;
   P2->REN |= BIT5;
P2->OUT |= BIT5;
                       // Interrupt on high-to-low transition
   P2->IES |= BIT5;
   P2->IFG &= ~BIT5; // Clear P2.5 interrupt flag
P2->IE |= BIT5; // Enable interrupt for P2.5
   P1->OUT |= (BIT0); /* turn on P1.0 red LED */
   // Enable Port 2 on the NVIC
   NVIC->ISER[1] = 1 << ((PORT2_IRQn) & 31); // 31
   __enable_irq();
                      // Enable global interrupt
   while(1){
       __sleep();
                         // go to sleep interrupts
}
void PORT2_IRQHandler(void)
 if(P2->IFG & BIT5){
     P1->OUT ^= BIT0; // Toggle Bit0
   P2->IFG &= ~BIT5; // Clear the interrupt flag
```