Universidad Del Valle de Guatemala

Programación de Microcontroladores

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22517

## Pre - Laboratorio #4

## Parte #1:

```
* Universidad del Valle de Guatemala
* Laboratorio4.c
* Created: 4/8/2024 11:20:05 PM
 * Author : Santiago Burgos
#define F_CPU 16000000
#include <avr/io.h>
#include <avr/interrupt.h>
#include <util/delay.h>
#include <stdint.h>
uint8 t counter = 0;
void initPCINT1(void);
int main(void)
      cli();
      DDRD = 0xFF;
      PORTD = 0;
      UCSR0B = 0;
      PORTC = (1 << PINC0) | (1 << PINC1);
      DDRC &= ~(1 << PINC0) | ~(1 << PINC1);
    initPCINT1();
      sei();
    while (1)
             // inicia secuencia de adc
             //ADCSRA |= (1<< ADSC);
              //_delay_ms(100);
             PORTD = counter;
```

```
}

void initPCINT1(void){

    PCICR |= (1 << PCIE1);
    PCMSK1 |= (1 << PCINT8) | (1 << PCINT9);

}

ISR(PCINT1_vect){

    if (!(PINC & (1 <<PINC0))){
        counter++;
    } else if(!(PINC &(1 <<PINC1))){
        counter--;
    }else{
        counter = counter;
    }
}</pre>
```

## Parte #2

