ATMEGA32 İÇİN

```
/*
 * frekansmetre.c
 *
 * Created: 09.02.2014 10:14:42
 *  Author: BERKAY
 */


#include <avr/io.h>
#define F_CPU 1000000
#include <avr/interrupt.h>
#include "lcd16.h"

volatile int sayac,frekans=0;

void timer1_init(){

	TCCR1B=0X02;
	TCNT1=0;
	TIMSK=(1<<TOIE1);
	sei();
	sayac=0;

}

ISR(TIMER1_OVF_vect){

	sayac++;

	TCNT1=0;

}

ISR(INT1_vect){

	frekans++;

}


void cont(){

	PORTD^=(1<<6);

	gotoXy(0,1);
	integerToLcd(frekans); // print frequency value on 16x2 lcd


	frekans=0;
	TCNT1=0;
	sayac=0;

}
```

```
int main(void)
{
	sayac=0;
	DDRD|=(1<<6); // for led
	DDRB=0XFF;
	timer1_init();
	MCUCR|=(1<<ISC10)|(1<<ISC11);
	GICR|=(1<<INT1);


	lcdInit();

	gotoXy(0,0);
	prints("Frekans metre");
	gotoXy(6,1);
	prints("HZ");



	while(1)
	{
		if (sayac>=1){

			if(TCNT1>=56660){

				cont();

			}

		}
	}
	return 0;
}
```

ATMEGA 8 İÇİN

```
/*
 * frekansmetre.c
 *
 * Created: 09.02.2014 10:14:42
 *  Author: BERKAY
 */


#include <avr/io.h>
#define F_CPU 1000000
#include <avr/interrupt.h>
#include "lcd16.h"

volatile int sayac,frekans=0;

void timer2_init(){

	TCCR2=0X07;
	TCNT2=0;
```

```
	TIMSK=(1<<TOIE2);
	sei();
	sayac=0;

}

ISR(TIMER2_OVF_vect){

	sayac++;

	TCNT2=0;

}

ISR(INT0_vect){

	frekans++;

}


void cont(){

	PORTD^=(1<<7);

	gotoXy(0,1);
	integerToLcd(frekans); // print frequency value on 16x2 lcd

	frekans=0;
	TCNT2=0;
	sayac=0;

}



int main(void)
{

	DDRD|=(1<<7); // for led
	DDRB=0XFF;

	MCUCR|=(1<<ISC00)|(1<<ISC01);
	GICR|=(1<<INT0);


	lcdInit();

	gotoXy(0,0);
	prints("Frekans metre");
	gotoXy(6,1);
	prints("HZ");


	timer2_init();
	while(1)
	{
		if (sayac>=3){
```

```
                        if(TCNT2>=211){

                                cont();

                        }

                }

                else{
                        PORTD&=~(1<<7);
                }
        }
        return 0;
}
```