#pragma config FOSC = HS

#pragma config PWRTE = OFF

#pragma config WDTE = OFF

#pragma config CP = OFF

#pragma config BOREN = ON

#pragma config LVP = OFF

#pragma config CPD = OFF

#pragma config WRT = OFF

#pragma config DEBUG = OFF

#include <xc.h>

#include <stdio.h>

#define \_XTAL\_FREQ 20000000

void t2\_init();

void uart\_init();

void t2delay();

void tx(unsigned char);

void txstr(unsigned char\*);

void main(){

t2\_init();

uart\_init();

unsigned char i=0;

while(1){

tx(i);

i++;

txstr('\r\n');

t2delay();

}

}

void t2\_init(){

T2CON = 0x78;

}

void uart\_init(){

TRISC |= (1<<7);

TRISC &= ~(1<<6);

TXSTA = 0x20;

RCSTA = 0x90;

SPBRG = 31;

}

void tx(unsigned char a){

while(!TXIF);

TXREG = a;

}

void txstr(unsigned char \*b){

while(\*b){

tx(\*b++);

}

}

void t2delay(){

T2CON |= (1<<2);

for(unsigned int i = 0; i<1220; i++){

while(!TMR2IF);

TMR2IF = 0;

}

}