#include<xc.h>

#include <pic18f4550.h> /\* Contains PIC18F4550 specifications \*/

#define Buzzer LATAbits.LATA5 /\* Define buzzer pin \*/

unsigned int count = 0;

void Timer1\_ISR()

{

if(TMR1IF==1)

{

//TMR1=0xCF2C;

TMR1L = 0x20;

TMR1H = 0xD1;

count++;

if (count >= 1000) //measure upto 1000 ms i.e. 1 seconds

{

Buzzer = ~Buzzer; /\* Toggle buzzer pin \*/

count = 0; //reset count

}

TMR1IF = 0; //timer1 overflow flag to 0

}

}

void main()

{

TRISB=0; /\* Set as output port \*/

TRISAbits.TRISA5 = 0; //set buzzer pin RA5 as output

GIE=1; /\* Enable Global Interrupt \*/

PEIE=1; /\* Enable Peripheral Interrupt \*/

TMR1IE=1; /\* Enable Timer1 Overflow Interrupt \*/

TMR1IF=0;

/\* Enable 16-bit TMR1 register,no pre-scale,internal clock, timer OFF \*/

T1CON=0x80; /\*1:8 prescale\*/

TMR1L = 0x20;

TMR1H = 0xD1;

TMR1ON=1; /\* Turn ON Timer1 \*/

while(1);

}