#include <p18f4550.h>

void interrupt timer\_isr(void) {

if (INTCONbits.TMR0IF == 1) { // Check if Timer0 overflow interrupt flag is set

T0CONbits.TMR0ON = 0; // Stop Timer0

INTCONbits.TMR0IF = 0; // Clear the interrupt flag

TMR0H = 0xED; // Reload Timer0 high byte

TMR0L = 0xB0; // Reload Timer0 low byte

LATB = ~LATB; // Toggle PORTB

T0CONbits.TMR0ON = 1; // Restart Timer0

}

}

void main() {

ADCON1 = 0x0F; // Configure all AN pins as digital I/O

TRISB = 0x00; // Set PORTB as output

LATB = 0xFF; // Initialize PORTB with all LEDs on

T0CON = 0x07; // Configure Timer0: 16-bit mode, internal clock, 1:256 prescaler

TMR0H = 0xED; // Load Timer0 high byte for 100ms delay

TMR0L = 0xB0; // Load Timer0 low byte for 100ms delay

INTCONbits.TMR0IF = 0; // Clear Timer0 overflow interrupt flag

INTCONbits.TMR0IE = 1; // Enable Timer0 interrupt

T0CONbits.TMR0ON = 1; // Start Timer0

INTCONbits.GIE = 1; // Enable global interrupts

while (1) {

// Main loop does nothing; waiting for interrupts

}

}