```
#include<xc.h>
unsigned char count=0;
bit TIMER, SPEED_UP;
void timer2Init(void){
    T2CON = 0b00000010;
    PR2= 0x95;
}
void delay(unsigned int time){
    unsigned int i,j;
    for(i=0;i<time;i++){</pre>
        for(j=0;j<1000;j++);
    }
}
void main(void){
    unsigned int i;
    TRISCbits.TRISC1=0;
    TRISCbits.TRISC2=0;
    LATCbits.LATC1=0;
    CCP1CON=0b00111100;
    CCPR1L=0x0F;
    timer2Init();
    TMR2ON=1;
    while(1){
        for(i=15;i<150;i++){
            CCPR1L=1;
            delay(100);
        for(i=150;i>15;i--){
            CCPR1L=1;
            delay(100);
        }
    }
}
```