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Assignment No: 07

Aim: Write an Embedded C program for Timer programming ISR based buzzer on/off.

```
Program (Memory transfer):
#include <xc.h>
#include<pic18f4550.h>
#define Buzzer LATAbits.LATA5 //define buzzer pin
unsigned int count=0;
void Timer1ISR(){
if(TMR1IF==1){
TMR1L=0x20;
TMR1H=0xD1;
count++;
if(count > = 1000)
//measure upto 1000 ms i.e. 1 seconds
Buzzer=~Buzzer; //Toggle buzzer pin
```

```
count=0;
  }
TMR1IF=0;
void main(void)
TRISB=0; //set as output
TRISAbits.TRISA5=0; //set buzzer pin as RA5 as output
GIE=1;
PEIE=1;
TMR1IE=1;
TMR1IF=0;
/*Enable 16 bit TMR1 register, no pre-scaler, internal clock, timer OFF*/
T1CON=0x80;
TMR1L=0x20;
TMR1H=0xD1;
TMR1ON=1;
while(1);
return;
```

