```
Name:-
Roll_no:-
Subject:-
Class:-
                           EXPERIMENT NO:-
/*CALCULATIONS
* required time = 100ms Fosc=48Mhz
* TMR value = 0xFFFF - (required time) / (4 * Tosc * Prescaler)
     = 0xFFFF - (0.1 * 48000000) / (4 * 256)
     = 0xFFFF - 0x124F
* TMR = 0xEDB0
* TMRH = 0xED
* TMRL = 0xB0
*/
#include <p18f4550.h>
void interrupt timer_isr(void)
{
       if(TMR0IF == 1) //If timer0 interrupt flag is set.....
  {
  TMROON = 0;
                         // Stop the timer
  TMR0IF = 0; //Clear the interrupt flag
  TMROH = 0xED;
                            //Reload Timer0
  TMROL = 0xB0;
                          //Toggle PORTB
   LATB =^{\sim}LATB;
```

TMROON = 1; // Start the timer

```
}
}
void main()
{
       ADCON1 = 0x0F;
                           //Configuring the PORTE pins as digital I/O
       TRISB = 0;
                          //Configruing the LED port pins as outputs
       LATB = 0xFF;
                            //Setting the initial value of the LED's after reset
       TOCON = 0x07; //Set the timer to 16-bit mode,internal instruction cycle clock,1:256 prescaler
       TMROH = 0xED;
                              // Reset Timer0 to 0x48E5 TO MAKE DELAY OF 1 SECOND
       TMROL = 0xB0;
       INTCONbits.TMR0IF = 0; // Clear Timer0 overflow flag
       INTCONbits.TMR0IE = 1;
                                     // TMR0 interrupt enabled
       TOCONbits.TMR0ON = 1;
                                             // Start timer0
       INTCONbits.GIE = 1;
                                             // Global interrupt enabled
       while(1); //Program execution stays here until the timer overflow interrupt is generated
}
```