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Roll no- SI15

Assignment 7

Program-

```c
/*
 * File:   newmain.c
 * Author: Administrator
 *
 * Created on 5 April, 2022, 9:31 AM
 */



#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
```

```c
        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;

}
```