C Programming for xlab8_pt1

```
/*
 * xlab8_pt1.c
 *
 * Created: 5/5/2565 2:06:32
 * Author : ASAS
 */

#include <avr/io.h>

void T0Delay_2ms(void)
{ //for ATmega328P clock 16MHz ,Timer0 OV normal mode
      TCNT0=131; // need 125 round for 7.18125 ms / count 1 times (total 2 ms)
      TCCR0A=0x00; //normal mode
      TCCR0B=0x01; // Prescale clock 1024/1
      while((TIFR0&0x01)==0);
      TCCR0B=0x00; // Turn of counter
      TIFR0=(1<<TOV0); //clear TOV0
}
int main(void)
{
 DDRD=0XFF; // set portD is output
      unsigned int d=0; // d =0
 while (1)
 {
            PORTD=d;
  T0Delay_2ms();
            d++; // increment variable d +1
 }

}
```