C Programming for xlab8\_pt1**ก**

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\* xlab8\_pt1.c

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#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

}

}