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Roll no: SIA77

Batch: D

Class: S.E IT-A

## Assignmnet No: 06

**Aim:** Write an Embedded C program to interface PIC 18FXXX with LED & blinking it using specified delay.

**Program (Memory transfer):**

```
#include <xc.h>
#include <pic18f4550.h>
#include <stdlib.h>
void todelay(void)
{
    T0CON=0x08;

    TMR0H=0x35;

    TMR0L=0x00;

    T0CONbits.TMR0ON=1;

    while(INTCONbits.TMR0IF==0);

    T0CONbits.TMR0ON=0;

    INTCNbits.TMR0IF=0;
}

void main(void) {

    TRISD=0;

    while(1){

        PORTD=0x55;

        todelay();
```

```

PORTD=0xAA;

todelay();

}

}

```

## Output:

In MPLAB IDE

MPLAB X IDE v6.05 - led: default

File Edit View Navigate Source Refactor Production Debug Team Tools Window Help

Search (Ctrl+F)

PC: 0x7FF6 n ov z dc c : W:0x0 : bank 0 How do I? keyword(s)

Projects Files Services

Header Files  
Important Files  
Linker Files  
Source Files  
lcd\_interfacing.c  
Libraries  
Loadables  
lcd1  
Header Files  
Important Files  
lcl.c  
Linker Files  
Source Files  
Libraries  
Loadables  
led  
Header Files  
Important Files  
Linker Files  
Source Files  
Libraries  
Loadables  
Minimum

```

void todelay(void) {
    TOCON=0x08;
    TMR0H=0x35;
    TMR0L=0x00;
    TOCONbits.TMR0ON=1;
    while(INTCONbits.TMR0IF==0);
    TOCONbits.TMR0ON=0;
    INTCNbits.TMR0IF=0;
}

void main(void) {
    TRISD=0;
    while(1) {
        PORTD=0x55;
        todelay();
        PORTD=0xAA;
        todelay();
    }
}

```

IO View

Icon Peripheral  
Master Synchronous Serial Port 1  
Oscillator

Icon	Name	Address	Value	Decimal	Bits
	Port D				
	LATD	0xF8C	0x55	85	7 6 5 4 3 2 1 0
	PORTD	0xF83	0x55	85	7 6 5 4 3 2 1 0
	TRISD	0xF95	0x00	0	7 6 5 4 3 2 1 0

led - Dashboard x main() - Navigator

Project Type: Application - Configuration: default

Device  
PIC18F4550  
Checksum: 0x641D  
CRC32: 0xF6614066  
Pads

Type here to search

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## In PICSIM LAB



