

Name : Tulsi Andhare Roll no E3415 EXP no 2 Flashing Leds with time delay

```
#include<reg51.h>
```

```
void Delay(void);
```

```
void main (void)
```

```
{
```

```
while(1)
```

```
{
```

```
P2 = 0x00;
```

```
Delay();
```

```
P2 = 0xFF;
```

```
Delay();
```

```
}
```

```
}
```

```
void Delay(void)
```

```
{
```

```
int i;
```

```
TMOD =0x01;
```

```
for(i=0;i<1000;i++)
```

```
{
```

```
TL0=0x18;
```

```
TH0=0xFC;
```

```
TR0=1;
```

```
while(TF0==0);
```

```
TR0=0;
```

```
TF0=0;
```

```
}
```

```
}
```

```
//OUTPUT
```

D:\MCAL_practicals.uvproj - uVision [Non-Commercial Use License]

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Registers Disassembly

Register Value

Register	Value
r0	0x00
r1	0x00
r2	0x00
r3	0x00
r4	0x00
r5	0x00
r6	0x03
r7	0x05
sp	0x09
sp_max	0x09
dptr	0x000
PC	0x001
status	50721
sec	25.361
psw	0x80

flashings leds.c STARTUP.AS1

```
1 #include <reg51.h>
2 void Delay(void);
3 void main (void)
4 {
5     while(1)
6     {
7         P2 = 0x00;
8         Delay();
9         P2 = 0xFF;
10        Delay();
11    }
12 }
13 void Delay(void)
14 {
15     int i;
16     TMOD = 0x01;
17     for (i=0; i<1000; i++)
18     {
19         TL0=0x18;
20         TH0=0xFC;
```

Parallel Port 2

Port 2

P2: 0xFF 7 Bits 0

Pins: 0xFF

Command

Running with Code Size Limit: 2K
Load "D:\\Objects\\MCAL_practicals"

ASM ASSIGN BreakDisable BreakEnable BreakKill BreakList BreakSet BreakAccess COVERAGE COVTOFILE DEFINE DIR Display Enter EVALUATE EXIT FUNC Go INCLUDE KILL

Simulation tt: 25.36085700 sec L:22 C:1 CAP NUM SCRL OVR RAW

11:08 PM 9/9/2025