Name : Tulsi Andhare   Roll no E3415 EXP no 2 HEX counter

```c
//code
#include<reg51.h>
void Delay(void);
void main (void)
{
unsigned char count=0x00;
while(1)
{
P2 = count;
Delay();
count= count+1;
}
}
void Delay(void)
{
int i,j;
for(i=0;i<100;i++)
{
for(j=0;j<1000;j++)
{
}
}
}
//output
```

File   Edit   View   Project   Flash   Debug   Peripherals   Tools   SVCS   Window   Help

Registers

Register	Value
Regs	
r0	0x00
r1	0x00
r2	0x00
r3	0x00
r4	0x03
r5	0x46
r6	0x00
r7	0x28
Sys	
a	0x00
b	0x00
sp	0x0a
sp_max	0x0a
dptr	0x000
PC $	C:0x0(
states	55025
sec	27.51;
psw	0x80

Project   Registers

Disassembly

flashing leds .c   STARTUP.A51

```
 3 void main (void)
 4 {
 5 unsigned char count=0x00;
 6 while(1)
 7 {
 8 P2 = count;
 9 Delay();
10 count= count+1;
11 }
12 }
13 void Delay(void)
14 {
15 int i,j;
16 for(i=0;i<100;i++)
17 {
18 for(j=0;j<1000;j++)
19 {
20 }
21 }
22 }
```

Parallel Port 2   ×

Port 2
          7   Bits   0
P2: 0x64 □ ☑ ☑ □ □ ☑ □ □
Pins: 0x64 □ ☑ ☑ □ □ ☑ □ □

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   t1: 27.51256800 sec   L:20 C:1   CAP NUM SCRL OVR R/W

Q Search

ENG
IN

11:00 PM
9/9/2025