

Name : Tulsi Andhare Roll no : E3415 EXP NO 3 stepper motor full drive

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

```
void Delay(void)
```

```
{
```

```
  unsigned int x;
```

```
  for (x=0; x<1000; x++)
```

```
  {
```

```
    TMOD=0x01;
```

```
    TH0=0xFC;
```

```
    TL0=0x18;
```

```
    TR0=1;
```

```
    while (TF0==0);
```

```
    TR0=0;
```

```
    TF0=0;
```

```
  }
```

```
}
```

```
void main()
```

```
{
```

```
  while(1)
```

```
  {
```

```
    P1=0x0C;
```

```
    Delay();
```

```
    P1=0x06;
```

```
    Delay();
```

```
    P1=0x03;
```

```
    Delay();
```

```
    P1=0x09;
```

```
    Delay();
```

```
  }
```

```
}
```

//output

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

File Edit View Project Flash Debug Peripherals Tools SVCS Window Help

Registers

Register	Value
r0	0x00
r1	0x00
r2	0x00
r3	0x00
r4	0x00
r5	0x00
r6	0x00
r7	0x38
sys	
a	0x00
b	0x00
sp	0x09
sp_max	0x09
dptr	0x000
PC	0x001
status	11239
sec	5.619
pcse	0x80

expno3.c STARTUP.A51

```
10 TR0=1;
11 while (TF0==0);
12 TR0=0;
13 TF0=0;
14 }
15 }
16 void main()
17 {
18 while (1)
19 {
20 P1=0x0C;
21 Delay();
22 P1=0x06;
23 Delay();
24 P1=0x03;
25 Delay();
26 P1=0x09;
27 Delay();
28 }
29 }
```

Parallel Port 1

Port 1

P1: 0x09 7 Bits 0

Pins: 0x09

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: 5.61977050 sec L:11 C:1 CAP NUM SCRL OVR R/W

ENG IN 11:14 PM 9/9/2025