Practical 7 Aim: Pragram to generate Traffic Dignal using 80 51 MC
P2.5 P2.4 P2.3 Cay 0 0 0 Cay 4 44 R1 71 G1 R3 OP2.0
43 02-1
G3 O P2.2

```
#include <reg51.h>
sbit R1=P1^0;
sbit Y1=P1^1;
sbit G1=P1^2;
sbit R2=P1^3;
sbit Y2=P1^4;
sbit G2=P1^5;
sbit R3=P2^0;
sbit Y3=P2^1;
sbit G3=P2^2;
sbit R4=P2^3;
sbit Y4=P2^4;
sbit G4=P2^5;
void delay(unsigned int t)
{
```

```
int i,j;
       for(i=0;i<=t;i++)
       for(j=0;j<=1275;j++);
}
void clear()
{
       R1=0;
       R2=0;
       R3=0;
       R4=0;
       Y1=0;
       Y2=0;
       Y3=0;
       Y4=0;
       G1=0;
       G2=0;
       G3=0;
       G4=0;
       delay(25);
}
void phase()
{
       Y1=1;
       R2=1;
       R3=1;
       R4=1;
       delay(25);
```

```
G1=1;
R2=1;
R3=1;
R4=1;
delay(25);
Y2=1;
R1=1;
R3=1;
R4=1;
delay(25);
G2=1;
R1=1;
R3=1;
R4=1;
delay(25);
Y3=1;
R1=1;
R2=1;
R4=1;
delay(25);
G3=1;
R1=1;
R2=1;
R4=1;
delay(25);
Y4=1;
R1=1;
```

```
R2=1;
       R3=1;
       delay(25);
       G4=1;
       R1=1;
       R2=1;
       R3=1;
       delay(25);
}
void main(void)
{
       P1=0X00;
       P2=0X00;
       while(1)
       {
               phase();
               clear();
       }
}
```