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LED_BLINK

```
          eg51.h>
#define Del 3000
sfr LED_PORT2=0xA0; // defining LED_PORT2 for PORT2
void delay(unsigned int x) // delay function
{
unsigned int i,j;
for(i=0;i<=x;i++)
for(j=0;j<=100;j++);
}
void main(void)
{
while(1) // do it continuosly {
LED_PORT2=0xff; // LED ON delay(Del);
LED_PORT2=0x00; // LED OFF delay(Del);
}
}
```

```
//BCD Counter on PORT 1
BCD COUNTER
#include<reg51.h>
#define Del 2000
void delay(unsigned int x) // delay function
{
unsigned int i,j;
for(i=0;i<x;i++)
for(j=0;j<=100;j++);
}
void main(void) {
unsigned char count[10]={0xff,0xfe,0xfd,0xfc,0xfb,0xfa,0xf9,0xf8,0xf7,0xf6};
unsigned int x;
P1=0x00; // Make P1 as output port
while(1) // do it continuosly
{
for(x=0;x<10;x++)
{
P1=count[x];
```

```
delay(Del);
}
}
}
```

HEX COUNTER

```
#include <reg51.h>
# define del 2000
void delay (unsigned int x)//delay function {
unsigned int i,j;
for(i=0; i<=x; i++)
for(j=0;j<=100;j++);
}
void main(void)
{
unsigned char count[16] =
{0XC0,0XF9,0XA4,0XB0,0X99,0X92,0X82,0XF8,0X80,0X90,0X88,0X83,0XC6,0XA1,0X86,0X8E
};
unsigned int x;
P1 =0X00;
while(1)
{
for(x=0 ; x<16 ;x++)
{
p1 = count[x];
delay(del);
}
}
}
```