

//LED flashing

#include <at89c51xd2.h>

```
    my_delay()
    {
    TMOD=0x01;
    TCON=0x50;
    TL0=0x00;
    TH0=0x00;
    TR0=1;
    while(TF0==0);
    TF0=0;
    TR0=0;
    }

    void main(void)
    {
        P1= 0X00;

        while(1)
        {
            P1 = 0X00;
            my_delay();
            P1 = 0xFF;
            my_delay();
        }
    }
```

//Hex counter

#include<reg51.h>

void delay();

void main()

{

int i;

while(1)

{

for(i=0;i<16;i++)

{

P2=i;

delay();

}

}

}

void delay()

{

TMOD=0x01;

TCON=0x50;

TL0=0x00;

TH0=0x00;

TR0=1;

while(TF0==0);

TF0=0;

TR0=0;

}

//BCD counter

#include<reg51.h>

void delay();

void main()

{

int i;

while(1)

{

for(i=0;i<10;i++)

{

P2=i;

delay();

}

}

}

void delay()

{

TMOD=0x01;

TCON=0x50;

TL0=0x00;

TH0=0x00;

TR0=1;

while(TF0==0);

TF0=0;

TR0=0;

}