**4 digit 7 segment:**

unsigned short array[] = {0x40,0x79,0x24,0x30,0x19,0x12,0x02,0x78,0x00,0x10};

unsigned int number=0;

unsigned short digit[4];

void display\_number( unsigned int n)

{

digit[3]=n%10;

digit[2]=(n/10)%10;

digit[1]=(n/100)%10;

digit[0]=(n/1000)%10;

}

void display\_digit()

{

int i;

for(i=0;i<4;i++)

{

portc=0x00;

portb=array[digit[i]];

portc=(1<<i);

delay\_ms(10);

}

}

void main()

{

TRISB = 0x00;

TRISC=0x00;

portb=0x00;

portc=0x00;

while(1)

{

int t;

display\_number(number);

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

{

display\_digit();

}

number++;

if(number>9999)

number=0;

     }

}

**single digit 7\_segment:**

**unsigned short array []={0xC0,0xF9,0xA4,0xB0,0x99,0x92,0x82,0xF8,0x80,0x90};**

**void main()**

**{**

**int n=0;**

**int i=1;**

**TRISB = 0x00;**

**TRISD=0xff;**

**portb=0x00;**

**portd=0x00;**

**while(1)**

**{**

**portb=array[n] ;**

**if(portd.f0==1)**

**{**

**delay\_ms(30);**

**if(portd.f0==1)**

**{**

**if(i==1)**

**{**

**if(n<9)**

**n++;**

**if(n==9)**

**i=0;**

**}**

**else**

**{**

**if(n>0)**

**n--;**

**if(n==0)**

**i=1;**

**}**

**portb=array[n];**

**}**

**while(portd.f0==1);**

**}**

**}**

**}**

**Relay:**

**void main() {**

**TRISB=0x00;**

**portb=0x00;**

**while(1)**

**{**

**portb.f0=1;**

**delay\_ms(1000);**

**portb.f0=0;**

**delay\_ms(1000);**

**}**

**}**