

## Project code :

```
#include<reg51.h>

sbit in1=P1^0;

sbit in2=P1^1;

void main()

{

    int a[]={0x40 ,0x79 , 0x24 , 0x30 , 0x19 , 0x12 , 0x02 , 0x78 , 0x00 , 0x10 };

    int m=0;

    int n=0;

    int b,c;

    P2=0x40;

    P3=0x40;

    while(1)

    {

        in1=1;

        if(in1==0)

        {

            if(n==99 && m==99)

            {

                P2=0x10;

                P3=0x10;

            }

            else

            {

                m=m+1;

                n=n+1;

            }

        }

    }

}
```

```
        b=m/10;
        c=n%10;
        P2=a[b];
        P3=a[c];
        while(in1==0);
    }
}
if(in2==0)
{
    if(n==0 && m==0)
    {
        P2=0x40;
        P3=0x40;
    }
    else
    {
        m=m-1;
        n=n-1;
        b=m/10;
        c=n%10;
        P2=a[b];
        P3=a[c];
        while(in2==0);
    }
}
}
```