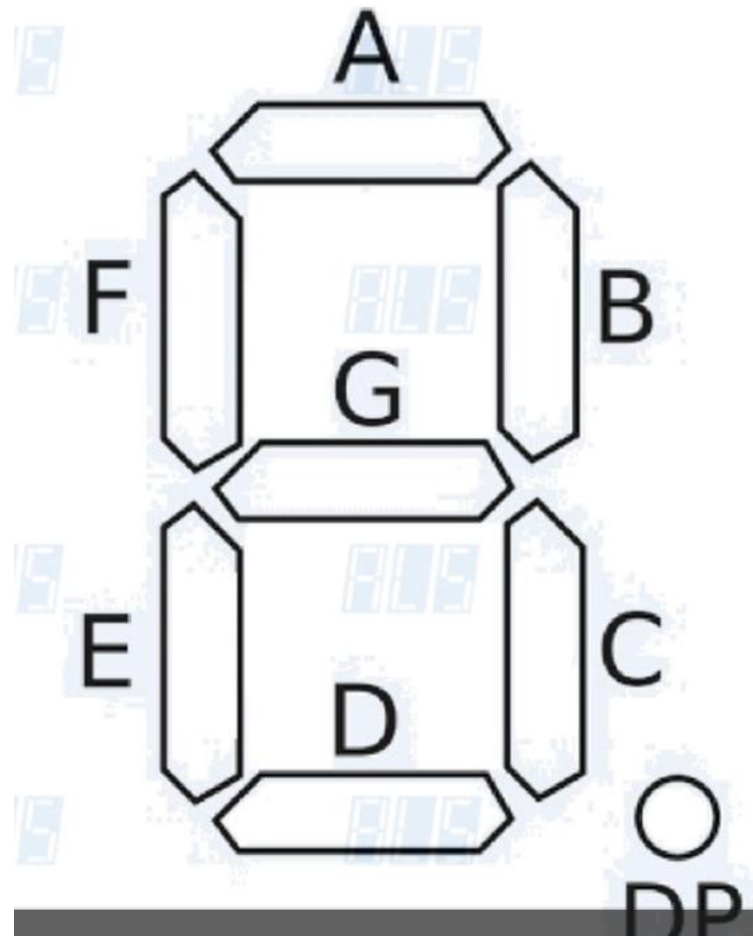
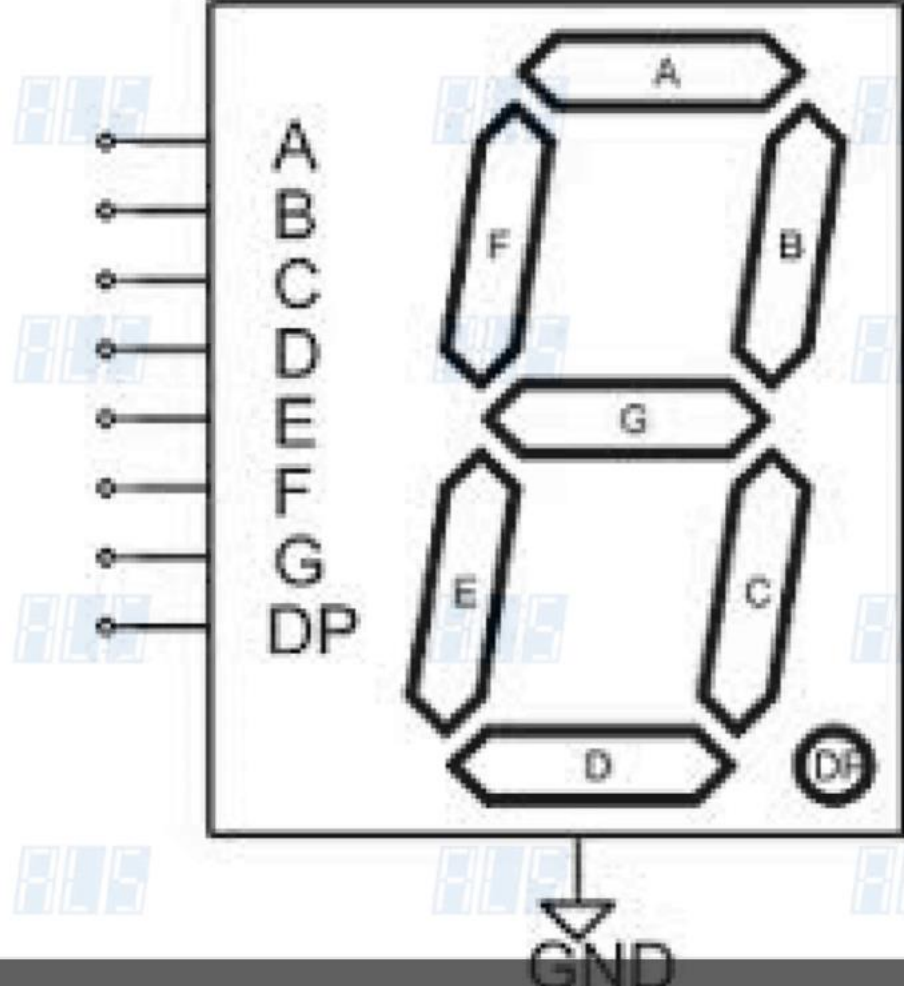
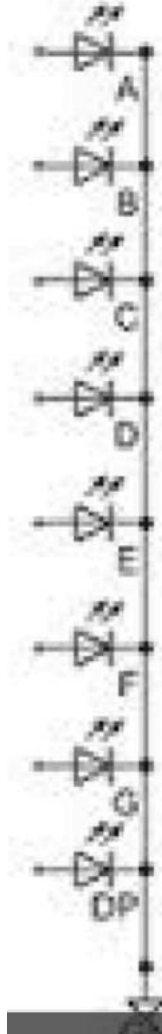
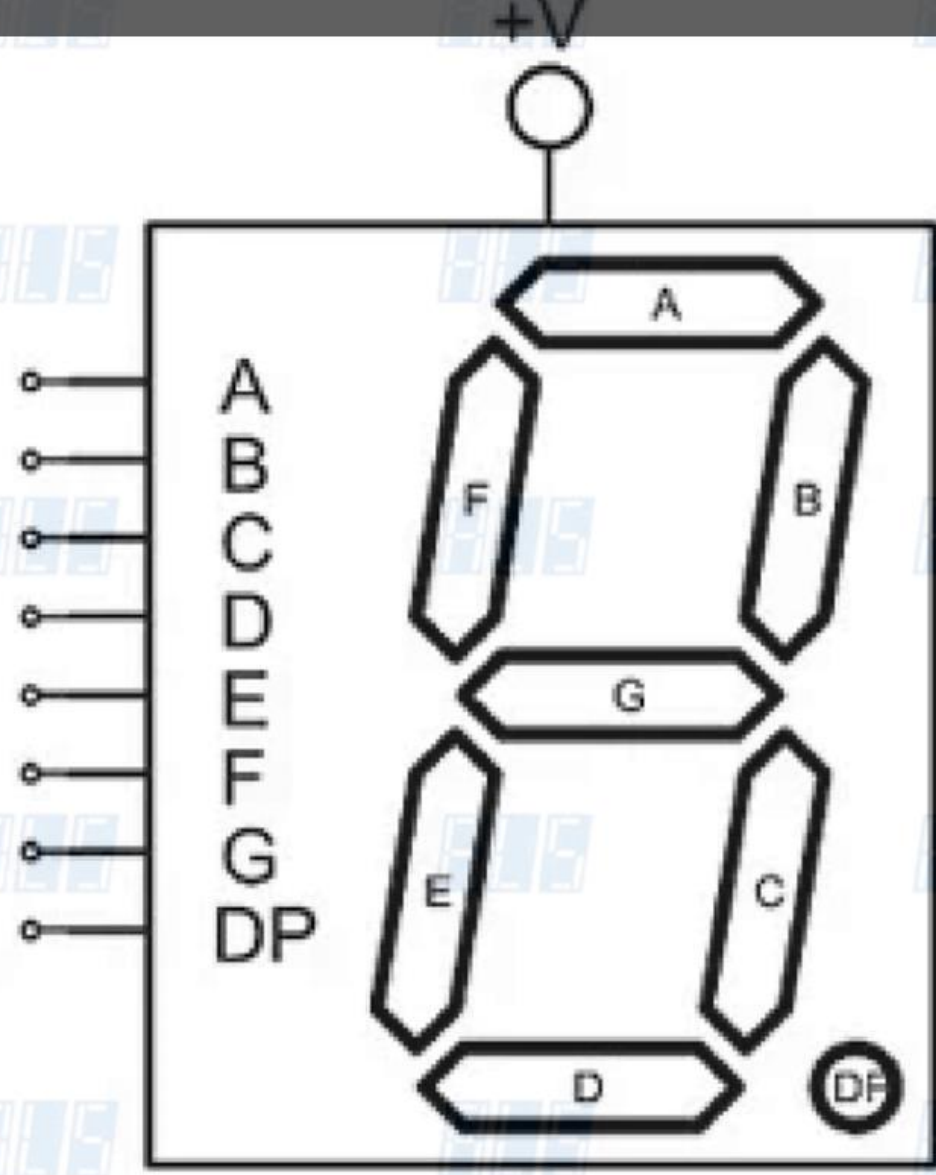
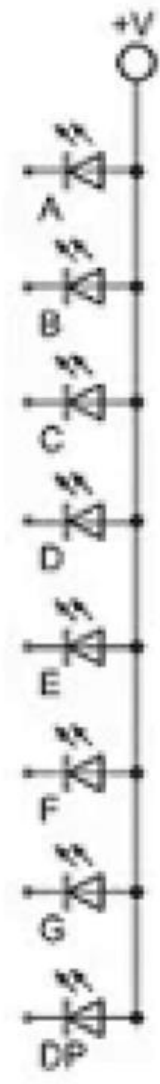
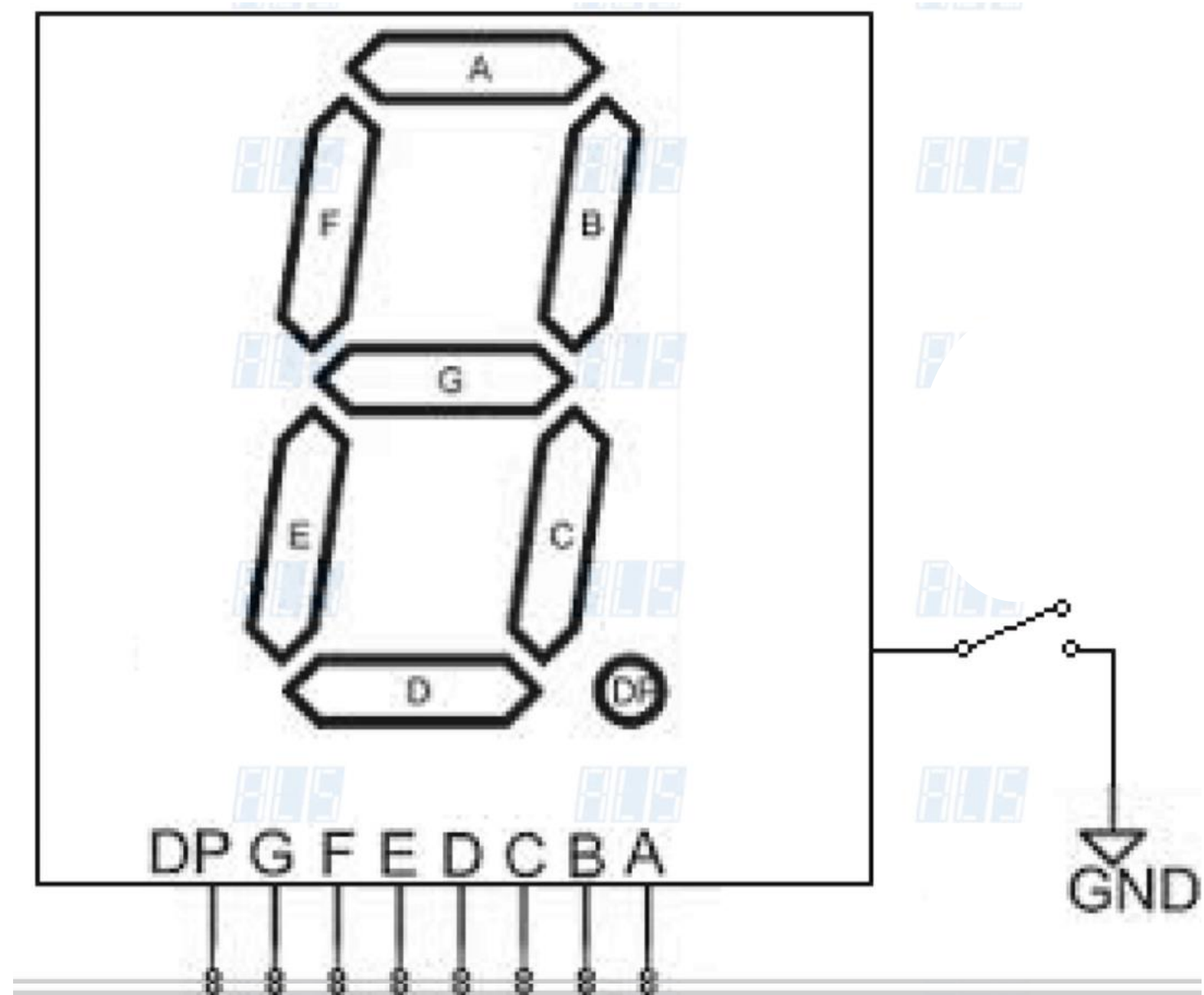


# **PROGRAMS ON MULTIPLEXED SEVEN SEGMENT DISPLAY**







DP	G	F	E	D	C	B	A	DISPLAY VALUE	HEX VALUE
0	0	1	1	1	1	1	1	0	0X3F
0	0	0	0	0	1	1	0	1	0X06
0	1	0	1	1	0	1	1	2	0X5B
0	1	0	0	1	1	1	1	3	0X4F
0	1	1	0	0	1	1	0	4	0X66
0	1	1	0	1	1	0	1	5	0X6D
0	1	1	1	1	1	0	1	6	0X7D
0	0	0	0	0	1	1	1	7	0X07
0	1	1	1	1	1	1	1	8	0X7F
0	1	1	0	1	1	1	1	9	0X6F
0	1	1	1	0	1	1	1	A	0X77
0	1	1	1	1	1	0	0	B	0X7C
0	0	1	1	1	0	0	1	C	0X39
0	1	0	1	1	1	1	0	D	0X5E
0	1	1	1	1	0	0	1	E	0X79
0	1	1	1	0	0	0	1	F	0X71

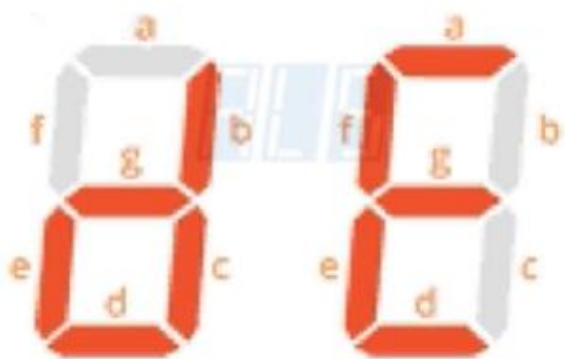
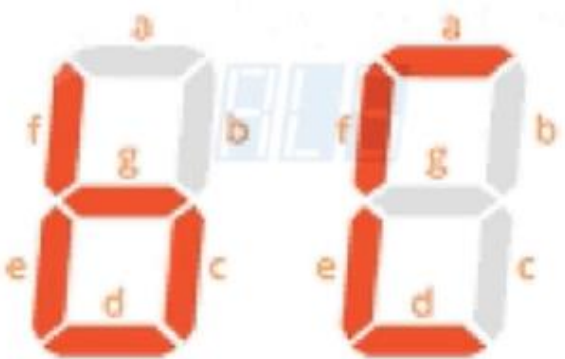
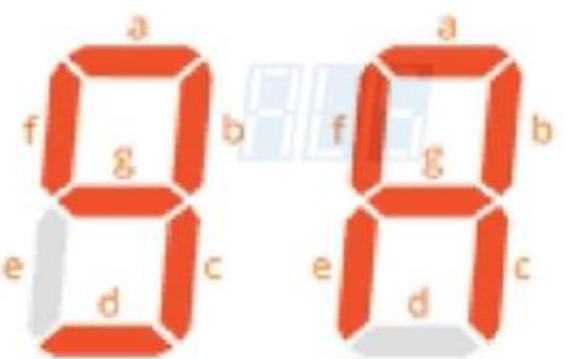
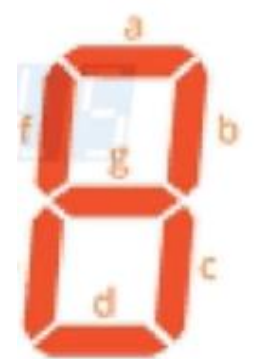
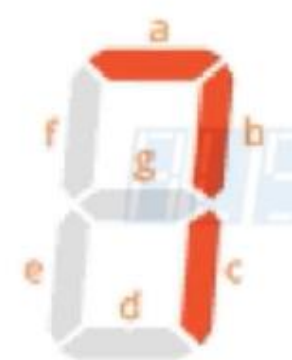
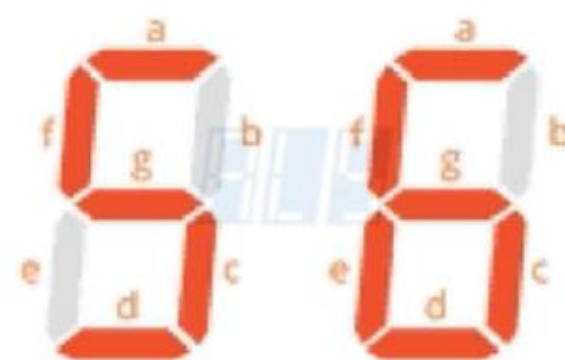
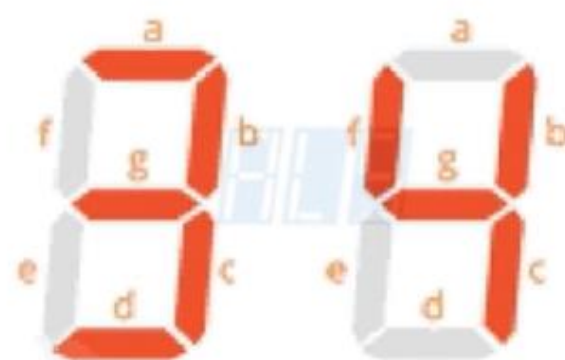
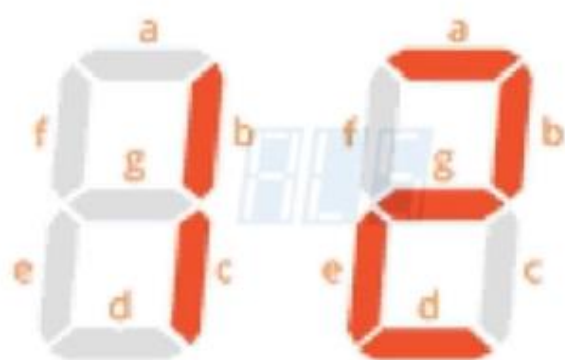
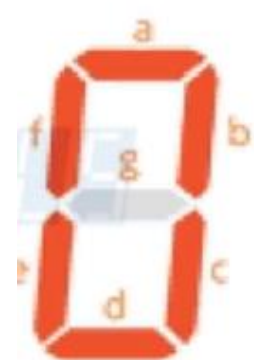


Diagram 1

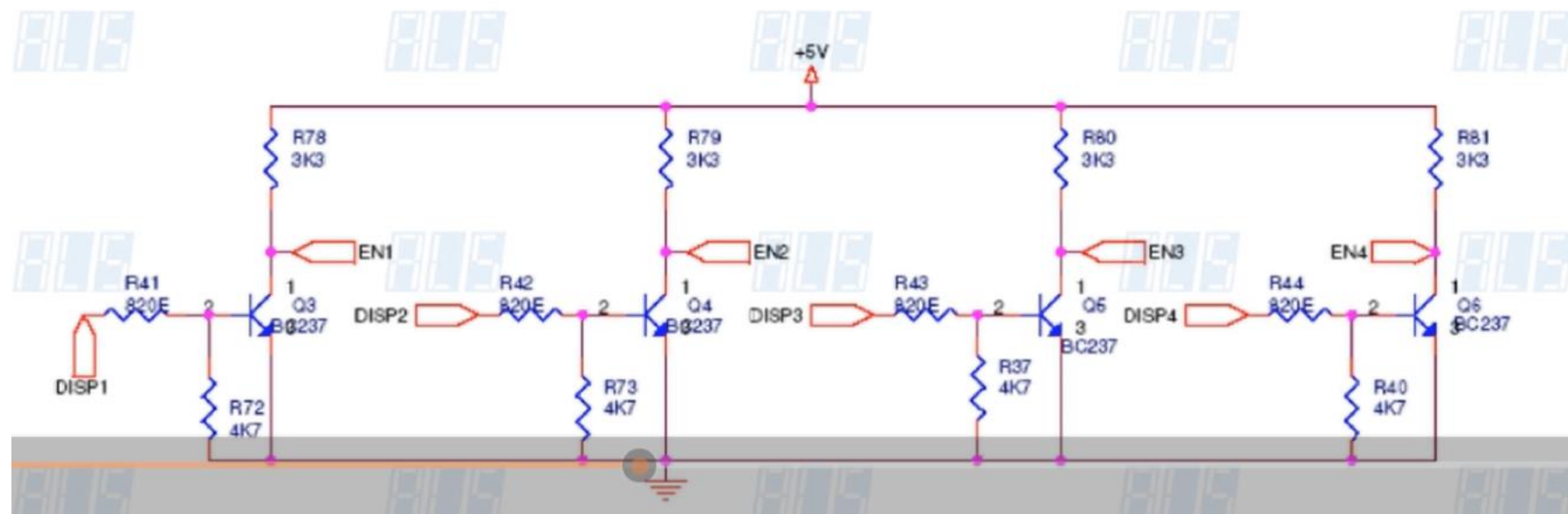
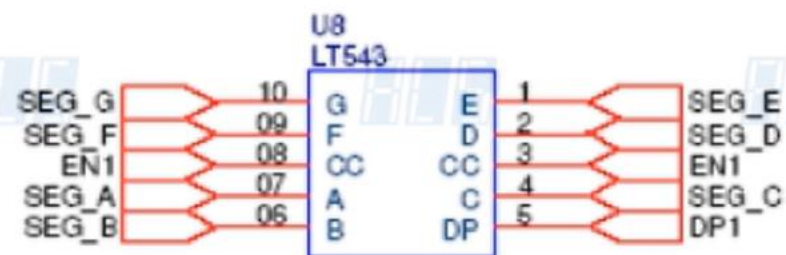
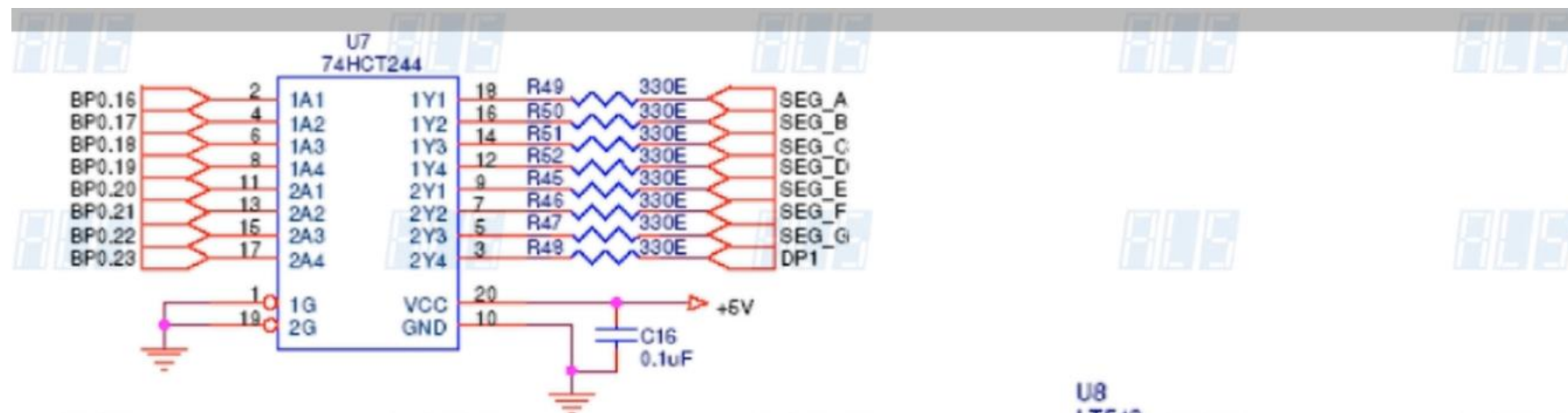
Diagram 2

Diagram 3

Diagram 4

Diagram 5









```

#include <LPC17xx.h>
unsigned int delay, count=0, Switchcount=0,j;

unsigned int Disp[16]={0x000003f0, 0x00000060, 0x000005b0, 0x000004f0, 0x00000660,0x000006d0,
                      0x000007d0, 0x00000070, 0x000007f0, 0x000006f0, 0x00000770,0x000007c0,
                      0x00000390, 0x000005e0, 0x00000790, 0x00000710 };

#define ALLDISP  0x00180000                //Select all display
#define DATAPORT 0x00000ff0                //P0.4 to P0.11 : Data lines connected to drive Seven Segments
int main (void)
{
    LPC_PINCON->PINSEL0 = 0x00000000;
    LPC_PINCON->PINSEL1 = 0x00000000;
    LPC_GPIO0->FIODIR = 0x00180ff0;

    while(1)
    {
        LPC_GPIO0->FIOSET |= ALLDISP;
        LPC_GPIO0->FIOCLR = 0x00000ff0;                // clear the data lines to 7-segment displays
        LPC_GPIO0->FIOSET = Disp[Switchcount];          // get the 7-segment display value from the array

        for(j=0;j<3;j++)
        for(delay=0;delay<30000;delay++);                // delay

        Switchcount++;
        if(Switchcount == 0x10)                          // 0 to F has been displayed ? go back to 0
        {
            Switchcount = 0;
            LPC_GPIO0->FIOCLR = 0x00180ff0;
        }
    }
}

```