**Expt. No. 3 7 SEGMENT LED INTERFACING**

#include <LPC21xx.H>

void delay(void);

int main(void)

{

\*PINSEL2= \*PINSEL2 & 0xFFFFFFF3;

\*IODIR1 = 0X017F0000;

\*IODIR0 = 0x12000800;

\*IOSET0 = 0x12000800; //select Seven Segment S1 ,S3,S4

\*IOSET1 = 0X01000000; //Select Seven Segment S2

\*IOCLR1 = 0X007F0000; //Clear Data Bit

while(1)

{

\*IOCLR1 = 0Xff0000;

delay();

\*IOSET1 = 0x3f0000;

delay();

\*IOCLR1 = 0Xff0000;

\*IOSET1 = 0x060000;

delay();

\*IOCLR1 = 0Xff0000;

\*IOSET1 = 0x5b0000;

delay();

\*IOCLR1 = 0Xff0000;

\*IOSET1 = 0x4f0000;

delay();

\*IOCLR1 = 0Xff0000;

\*IOSET1 = 0x660000;

delay();

\*IOCLR1 = 0Xff0000;

\*IOSET1 = 0x6d0000;

delay();

\*IOCLR1 = 0Xff0000;

\*IOSET1 = 0x7d0000;

delay();

\*IOCLR1 = 0Xff0000;

\*IOSET1 = 0x070000;

delay();

\*IOCLR1 = 0Xff0000;

\*IOSET1 = 0x7f0000;

delay();

\*IOCLR1 = 0Xff0000;

\*IOSET1 = 0x6f0000;

delay();

\*IOCLR1 = 0Xff0000;

\*IOSET1 = 0x770000;

delay();

\*IOCLR1 = 0xff0000;

\*IOSET1 = 0x7c0000;

delay();

\*IOCLR1 = 0xff0000;

\*IOSET1 = 0x390000;

delay();

\*IOCLR1 = 0xff0000;

\*IOSET1 = 0x5e0000;

delay();

\*IOCLR1 = 0xff0000;

\*IOSET1 = 0x790000;

delay();

\*IOCLR1 = 0xff0000;

\*IOSET1 = 0x710000;

delay();

\*IOCLR1 = 0xff0000;

\*IOSET1 = 0x860000;

delay();

\*IOCLR1 = 0xff0000;

\*IOSET1 = 0x800000;

delay();

\*IOSET1 = 0x000000;

delay();

}

}

void delay(void)

{

int j;

for (j=0;j<100000;j++);

for (j=0;j<100000;j++);

for (j=0;j<100000;j++);

for (j=0;j<100000;j++);

for (j=0;j<100000;j++);

}