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**DR. M. S. SHESHGIRI COLLEGE OF ENGINEERING AND TECHNOLOGY**

## **Department of Electronics and Communication Engineering**

### **Operating System And Embedded System Design**

Team A7

## **REVIEW – 4**

**Review Statement :** Write a C program with two tasks and resource seven segment display.

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Guide Signature

## CODE:

```
#include<rtl.h>

#include<LPC21xx.h>

#include<stdio.h>

__task void task2(void);

//void init_serial(void);

void delay1(void);

unsigned int Disp1[5] = { 0X003F0000, 0X00060000, 0X005B0000, 0X004F0000,
0X00660000};

unsigned int Disp2[5] = { 0X006D0000, 0X007D0000, 0X00070000, 0X007F0000,
0X006F0000};

unsigned int j,i=0;

OS_TID tsk1,tsk2;

OS_SEM semaphore1;

__task void task1(void)
{
OS_RESULT ret;

os_tsk_prio_self(2);

tsk2 = os_tsk_create(task2,1);

while(1)
{
ret = os_sem_wait(semaphore1 , 0x01);
if(ret== OS_R_SEM)
```

```

{

IODIR0 = 0xf0ff0000;

IOSET0 = 0xf0000000;

for (i = 0; i < 5; i++) {

    IOSET0 = Disp1[i]; //|

    delay1();

delay1();

    IOCLR0 = 0x00ff0000;

}

i=0;

os_sem_send(semaphore1);

}

}

}

__task void task2(void)

{

while(1)

{

os_sem_wait(semaphore1 , 0x01);

IODIR0 = 0xf0ff0000;

IOSET0 = 0xf0000000;

for (i = 0; i < 5; i++)

{

    IOSET0 = Disp2[i]; //

    delay1();

delay1();

    IOCLR0 = 0x00ff0000;

}

i=0;

os_sem_send(semaphore1);

```

```
}  
}  
void delay1(void)  
{  
    unsigned long int j;  
    for (j = 0; j < 650000; j++);  
}  
int main()  
{  
    os_sem_init(semaphore1,1);  
    os_sys_init(task1);  
}
```

# IMPLEMENTATION

