

Belagavi Campus

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

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

### **Real Time Operating System Lab**

(22EECE302)

**REVIEW-3** 

Team Number-: 12

**Team Members** 

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Creating Value, Leveraging Knowledge



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**Statement:** Write a C program with three tasks, having task 2 waiting for an even from task 3 for a duration and flag bits of 0xf000 and 0x0001.

### Code:

```
#include<rtl.h>
#include<lpc21xx.h>
#include<stdio.h>
OS TID tsk1,tsk2,tsk3;
OS RESULT RE1,RE2,RE3;
int cnt1,cnt2,cnt3,cnt4,cnt5,i;
task void job1(void);
  task void job2(void);
  task void job3(void);
  task void job1(void)
       os tsk prio self(2);
       tsk1=os_tsk_self();
       os_tsk_create(job2,1);
       while(1)
               for(i=0;i<15;i++)
                       cnt1++;
                       for(i=0;i<65000;i++);
                       for(i=0;i<65000;i++);
                       for(i=0;i<65000;i++);
                       for(i=0;i<65000;i++);
               os evt set(0x0001,tsk2);
               os dly wait(30);
       }
  task void job2(void)
       os_tsk_prio_self(3);
       tsk2=os tsk self();
       os tsk create(job3,4);
       while(1)
               RE2=os evt wait or(0x0001,0xf000);
               if(RE2==OS R EVT)
```

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```
for(i=0;i<15;i++)
                               cnt2++;
                               for(i=0;i<65000;i++);
                               for(i=0;i<65000;i++);
                               for(i=0;i<65000;i++);
                               for(i=0;i<65000;i++);
                       os_dly_wait(10);
               else if(RE2==OS R TMO)
                       for(i=0;i<15;i++)
                               cnt5++;
                               for(i=0;i<65000;i++);
                               for(i=0;i<65000;i++);
                               for(i=0;i<65000;i++);
                               for(i=0;i<65000;i++);
                       os_dly_wait(10);
               }
}
  task void job3(void)
       while(1)
               for(i=0;i<15;i++)
                       cnt3++;
                       for(i=0;i<65000;i++);
                       for(i=0;i<65000;i++);
                       for(i=0;i<65000;i++);
                       for(i=0;i<65000;i++);
               os evt set(0x0001,tsk1);
               os_dly_wait(30);
       }
}
```



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```
int main(void)
        cnt1=0;
        cnt2=0;
       cnt3=0;
       cnt4=0;
       cnt5=0;
       os sys init(job1);
        while(1);
}
```

#### **Output:**

