 **Review - 1**

**Team – A9**

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**Topic:**

**Write a C code to demonstrate the concept of Task Switching** a. 1st Task – Stepper motor clockwise

b. 2nd Task – Blink LED with delay of 2sec.

Under The Guidance Of:

Prof. Vidyadhar Dodamani Guide Signature

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• **Code:**

#include<rtl.h>

#include<lpc21xx.h>

#include<stdio.h>

void delay(unsigned int);

void led(void);

OS\_TID tsk1,tsk2;

int i;

\_\_task void job1(void);

\_\_task void job2(void);

\_\_task void job1(void)

{

os\_tsk\_prio\_self(1);

os\_tsk\_create(job2,0);

PINSEL0=0x00000000;

IODIR0=0x0000F000;

while(1)

{

IOSET0=0x00008000;

delay(65000);

IOCLR0=0x00008000;

IOSET0=0x00004000;

delay(65000);

IOCLR0=0x00004000;

IOSET0=0x00002000;

delay(65000);

IOCLR0=0x00002000;

IOSET0=0x00001000;

delay(65000);

IOCLR0=0x00001000;

}

}

\_\_task void job2(void)

{

os\_tsk\_prio\_self(2);

while(1)

{

led();

}

}

int main(void)

{

os\_sys\_init(job1);

while(1);

}

void delay(unsigned int j)

{

unsigned int i;

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

}

void led(void)

{

IODIR0=0xFFFFFFFF;

while(1)

{

IOSET0=0x00FF0000;

delay(2500000);

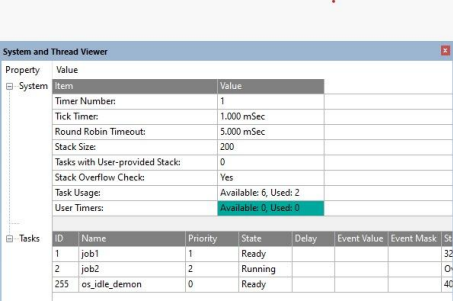
IOCLR0=0x00FF0000;

delay(2500000);

}

}

• **System And Thread Viewer:**

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**OUTPUT**

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