

GROUP-15

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Problem statement:

Write a C program to demonstrate the concept of ROUND ROBIN task switching mechanisms for 2 tasks.

1st Task- Stepper motor anti- clockwise.

2nd Task- Blink LED with delay of 2secs.

Under the Guidance of

Guide Signature

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```
Code: #include<lpc21xx.h>
#include<rtl.h>
#include<stdio.h>
__task void taskLed(void);
__task void anticlock(void);
void delay(void);
int main(void) {
   os_sys_init (taskLed);
  while(1)
  // Initialize your hardware and RTX here
  os_sys_init(taskLed); // Start the RTX kernel with the LED task
}
 __task void taskLed(void)
      {
  os_tsk_create (anticlock, 0);
  IODIR0 = 0x000f0000;
            IOSET0 = 0x000f0000;
            while(1)
  IOCLR0 = 0x000f0000;
                  delay();
            IOSET0 = 0x000f0000;
   delay();
```

```
__task void anticlock(void)
     {
  IODIR0 = 0X0000F000;
  PINSEL0 = 0X000000000;
    IOSET0 = 0X00008000;
    delay();
    IOCLR0 = 0X00008000;
    IOSET0 = 0X00004000;
    delay();
    IOCLR0 = 0X00004000;
    IOSET0 = 0X00002000;
    delay();
    IOCLR0 = 0X00002000;
    IOSET0 = 0X00001000;
    delay();
    IOCLR0 = 0X00001000;
  }
void delay()
{
unsigned int i;
    for(i=0;i<250000;i++);
}
```

Output:



