

Real-Time and Embedded Systems Design – Lab 3 Report Submission

Team 17

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```
#include <stdint.h>
#include "tm4c123gh6pm.h"
#include "FreeRTOS.h"
#include "task.h"
#include "timers.h"

static void vTask1( void *pvParameters );

int main()
{
    __asm("CPSID I");
    SYSCTL_RCGCGPIO_R=0x20;
    GPIO_PORTF_DIR_R=0x0E;
    GPIO_PORTF_DEN_R=0x0E;
    __asm("CPSIE I");

    xTaskCreate(vTask1, (const portCHAR *)"Task1", 128, NULL, 1, NULL );

    vTaskStartScheduler();
}

static void vTask1( void *pvParameters )
{
    for ( ; ; )
    {
        //const TickType_t xDelay = 500 / portTICK_RATE_MS;
        GPIO_PORTF_DATA_R ^=(1U << 1);
        vTaskDelay(2000/portTICK_RATE_MS);
        //vTaskDelay(xDelay);

    }
}
```