

Date Submitted: 9/26/19**Task 00:** Execute provided codeYoutube Link: <https://youtu.be/jr0laAyiHEw>**Task 01:**Youtube Link: <https://youtu.be/p45W0hHH0Qs>**Modified Code:**

```

#include <stdint.h>
#include <stdbool.h>
#include "inc/hw_memmap.h"
#include "inc/hw_types.h"
#include "driverlib/sysctl.h"
#include "driverlib/gpio.h"

uint8_t ui8PinData=4;

int main(void)
{
    SysCtlClockSet(SYSCTL_SYSDIV_5|SYSCTL_USE_PLL|SYSCTL_XTAL_16MHZ|SYSCTL_OSC_M
AIN);
    SysCtlPeripheralEnable(SYSCTL_PERIPH_GPIOF);
    GPIOPinTypeGPIOOutput(GPIO_PORTF_BASE, GPIO_PIN_1|GPIO_PIN_2|GPIO_PIN_3);

    while(1)
    {
        GPIOPinWrite(GPIO_PORTF_BASE, GPIO_PIN_1|GPIO_PIN_2|GPIO_PIN_3,
ui8PinData);
        SysCtlDelay(8000000); //changed to half a second
        GPIOPinWrite(GPIO_PORTF_BASE, GPIO_PIN_1|GPIO_PIN_2|GPIO_PIN_3, 0x00);
        SysCtlDelay(8000000); //changes to half a second
        if(ui8PinData==8) {ui8PinData=2;} else {ui8PinData=ui8PinData*2;}
        //2 =red  8=green  4=blue
    }
}

```

Task 02:Youtube Link (part a): <https://youtu.be/SS-AP1PEa4k>Youtube Link (part b): https://youtu.be/0LJnXj_T5fw**Modified Code:****2a.**

```

#include <stdint.h>

```

```

#include <stdbool.h>
#include "inc/hw_memmap.h"
#include "inc/hw_types.h"
#include "driverlib/sysctl.h"
#include "driverlib/gpio.h"

uint8_t ui8PinData=4; //changed to start at blue instead of red

int main(void)
{
    SysCtlClockSet(SYSCTL_SYSDIV_5|SYSCTL_USE_PLL|SYSCTL_XTAL_16MHZ|SYSCTL_OSC_M
AIN);
    SysCtlPeripheralEnable(SYSCTL_PERIPH_GPIOF);
    GPIOPinTypeGPIOOutput(GPIO_PORTF_BASE, GPIO_PIN_1|GPIO_PIN_2|GPIO_PIN_3);

    while(1)
    {
        GPIOPinWrite(GPIO_PORTF_BASE, GPIO_PIN_1|GPIO_PIN_2|GPIO_PIN_3,
ui8PinData);
        SysCtlDelay(8000000); //changed to half a second on
        GPIOPinWrite(GPIO_PORTF_BASE, GPIO_PIN_1|GPIO_PIN_2|GPIO_PIN_3, 0x00);
        SysCtlDelay(8000000); //changed to half a second off
        if(ui8PinData==8) {ui8PinData=2;} else {ui8PinData=ui8PinData*2;}
        //2 =red  8=green  4=blue
    }
}

```

2b.

```

#include <stdint.h>
#include <stdbool.h>
#include "inc/hw_memmap.h"
#include "inc/hw_types.h"
#include "driverlib/sysctl.h"
#include "driverlib/gpio.h"

uint8_t ui8PinData=2;

int main(void)
{
    SysCtlClockSet(SYSCTL_SYSDIV_5|SYSCTL_USE_PLL|SYSCTL_XTAL_16MHZ|SYSCTL_OSC_M
AIN);

    SysCtlPeripheralEnable(SYSCTL_PERIPH_GPIOF);
    GPIOPinTypeGPIOOutput(GPIO_PORTF_BASE, GPIO_PIN_1|GPIO_PIN_2|GPIO_PIN_3);

    while(1)
    {
        GPIOPinWrite(GPIO_PORTF_BASE, GPIO_PIN_1|GPIO_PIN_2|GPIO_PIN_3,
ui8PinData);
        SysCtlDelay(8000000); //changed to half a second
        GPIOPinWrite(GPIO_PORTF_BASE, GPIO_PIN_1|GPIO_PIN_2|GPIO_PIN_3, 0x00);
        SysCtlDelay(8000000); //changed to half a second
        if(ui8PinData==2) {ui8PinData=8;} //if red go to green
    }
}

```

Github root directory: <https://github.com/AmeeraE/microcontrollers/tree/master/TIVAC>

```

else if(ui8PinData==8) {ui8PinData=4;}//if green go to blue
else if(ui8PinData==4) {ui8PinData=10;}//if blue go to red/green
else if(ui8PinData==10) {ui8PinData=6;}//if red/green go to red blue
else if(ui8PinData==6) {ui8PinData=12;}//if red/blue go to green blue
else if(ui8PinData==12) {ui8PinData=14;}//if green/blue go to
red/green/blue
else if (ui8PinData==14) {ui8PinData=2;}//if red/green/blue go to red

//2 8 4 10 6 12 14
//2 =red 8=green 4=blue
}
}

```