

Date Submitted:

Task 00: Execute provided code

Youtube Link:

Task 01:Youtube Link: <https://www.youtube.com/watch?v=rhgg4qzkF64>

Modified Schematic (if applicable):

Modified Code:

```
// Insert code here
int main(void)
{
    SysCtlClockSet(SYSCTL_SYSDIV_5|SYSCTL_USE_PLL|SYSCTL_XTAL_16MHZ|SYSCTL_OSC_MAIN);
    //set at 40MHZ
    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(10000000);//2.5ns*20000000=0.25s
        GPIOPinWrite(GPIO_PORTF_BASE, GPIO_PIN_1|GPIO_PIN_2|GPIO_PIN_3, 0x00);
        SysCtlDelay(10000000);//2.5ns*20000000=0.25s
        if(ui8PinData == 8)
        {
            ui8PinData = 2;
        }
        else
        {
            ui8PinData = ui8PinData*2;
        }
    }
}
```

Task 02:Youtube Link: https://www.youtube.com/watch?v=_uyMg9fXO_0

Modified Schematic (if applicable):

Modified Code:

```
// Insert code here
int main(void)
{
    SysCtlClockSet(SYSCTL_SYSDIV_5|SYSCTL_USE_PLL|SYSCTL_XTAL_16MHZ|SYSCTL_OSC_M
    AIN);

    //set at 40MHZ
    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(10000000);//2.5ns*20000000=0.25s
        GPIOPinWrite(GPIO_PORTF_BASE, GPIO_PIN_1|GPIO_PIN_2|GPIO_PIN_3, 0x00);
        SysCtlDelay(10000000);//2.5ns*20000000=0.25s
        if(ui8PinData == 2)
        {
            ui8PinData = 6;
            //blinking RB
        }
        else if(ui8PinData <= 8 && ui8PinData != 6)
        {
            ui8PinData = ui8PinData/2;
        }//blinking R-B-G
        else if(ui8PinData < 14)
        {
            ui8PinData = ui8PinData + newdata;
            if(newdata > 2){newdata = newdata / 2;} else{newdata = 2;}
            //blinking RG-BG-RBG
        }
        else
        {
            ui8PinData = 8;
            newdata = 4;
        }
    }
}
```
