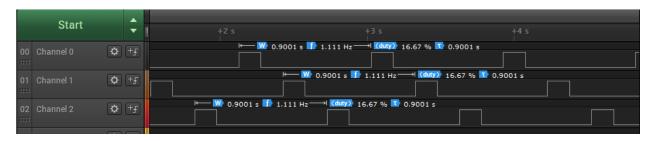
Date Submitted: 09/24/2019

Task 00: Execute provided code

Youtube Link:

https://youtu.be/tfFwKN7x-zY

Task 01:



Youtube Link:

https://youtu.be/5gl26b-mw8s

```
Modified Code:
// Insert code here
#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; //R = 2, G = 8, B = 4
int main(void)
      SysCtlClockSet(SYSCTL SYSDIV 15|SYSCTL USE PLL|SYSCTL XTAL 16MHZ|SYSCTL OSC MA
IN):
      //delay = Delay time(seconds)/(1/SysClk*3) where SysClk = (400M/2)/15 and
Delay time = 0.5 \text{ s}
      SysCtlPeripheralEnable(SYSCTL_PERIPH_GPIOF);
      GPIOPinTypeGPIOOutput(GPIO_PORTF_BASE, GPIO_PIN_1|GPIO_PIN_2|GPIO_PIN_3);
      //Selecting GPIO pins as output pins
      while(1)
      {
             GPIOPinWrite(GPIO PORTF BASE, GPIO PIN 1|GPIO PIN 2|GPIO PIN 3,
ui8PinData);
             SysCtlDelay(2222222.222); //calculated delay on time
             GPIOPinWrite(GPIO_PORTF_BASE, GPIO_PIN_1|GPIO_PIN_2|GPIO_PIN_3, 0x00);
             SysCtlDelay(2222222.222); // calculated delay off time
             if(ui8PinData==8) {ui8PinData=2;} else {ui8PinData=ui8PinData*2;}
//switch to other led
             //50% duty cycle
      }
}
```

.....

Task 02a:



Youtube Link:

https://youtu.be/Ep0y8chsmyg

```
Modified Code:
// Insert code here
#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; //R = 2, G = 8, B = 4
int main(void)
SysCtlClockSet(SYSCTL_SYSDIV_15|SYSCTL_USE_PLL|SYSCTL_XTAL_16MHZ|SYSCTL_OSC_MAIN);
    //delay = Delay time(seconds)/(1/SysClk*3) where SysClk = (400M/2)/15 and Delay
time = 0.5 s
    SysCtlPeripheralEnable(SYSCTL_PERIPH_GPIOF);
    GPIOPinTypeGPIOOutput(GPIO PORTF BASE, GPIO PIN 1|GPIO PIN 2|GPIO PIN 3);
    //Selecting GPIO pins as output pins
    while(1)
        GPIOPinWrite(GPIO_PORTF_BASE, GPIO_PIN_1| GPIO_PIN_2| GPIO_PIN_3,
ui8PinData);
        SysCtlDelay(2222222.222); //calculated delay on time
        GPIOPinWrite(GPIO_PORTF_BASE, GPIO_PIN_1|GPIO_PIN_2|GPIO_PIN_3, 0x00);
        SysCtlDelay(2222222.222); // calculated delay off time
        if(ui8PinData==4) {ui8PinData=8;} //BGR sequence
        else if (ui8PinData==8) {ui8PinData=2;}
        else {ui8PinData=4;}
    }
}
```

Youtube Link:

```
https://youtu.be/Ow0215id8XE
```

```
Modified Code:
// Insert code here
#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; //R = 2, G = 8, B = 4
int main(void)
SysCtlClockSet(SYSCTL_SYSDIV_15|SYSCTL_USE_PLL|SYSCTL_XTAL_16MHZ|SYSCTL_OSC_MAIN);
    //delay = Delay time(seconds)/(1/SysClk*3) where SysClk = (400M/2)/15 and Delay
time = 0.5 s
    SysCtlPeripheralEnable(SYSCTL PERIPH GPIOF);
    GPIOPinTypeGPIOOutput(GPIO_PORTF_BASE, GPIO_PIN_1|GPIO_PIN_2|GPIO_PIN_3);
    //Selecting GPIO pins as output pins
    while(1)
    {
        GPIOPinWrite(GPIO PORTF BASE, GPIO PIN 1 | GPIO PIN 2 | GPIO PIN 3,
ui8PinData);
        SysCtlDelay(2222222.222); //calculated delay on time
        GPIOPinWrite(GPIO_PORTF_BASE, GPIO_PIN_1|GPIO_PIN_2|GPIO_PIN_3, 0x00);
        SysCtlDelay(2222222.222); //calculated delay off time
        if(ui8PinData==2) {ui8PinData=8;} //R => current state
        else if (ui8PinData==8) {ui8PinData=4;} //G
        else if (ui8PinData==4) {ui8PinData=10;} //B
        else if (ui8PinData==10) {ui8PinData=12;} //RB
        else if (ui8PinData==12) {ui8PinData=14;} //GB
        else if (ui8PinData==14) {ui8PinData=2;} //RGB
    }
}
```