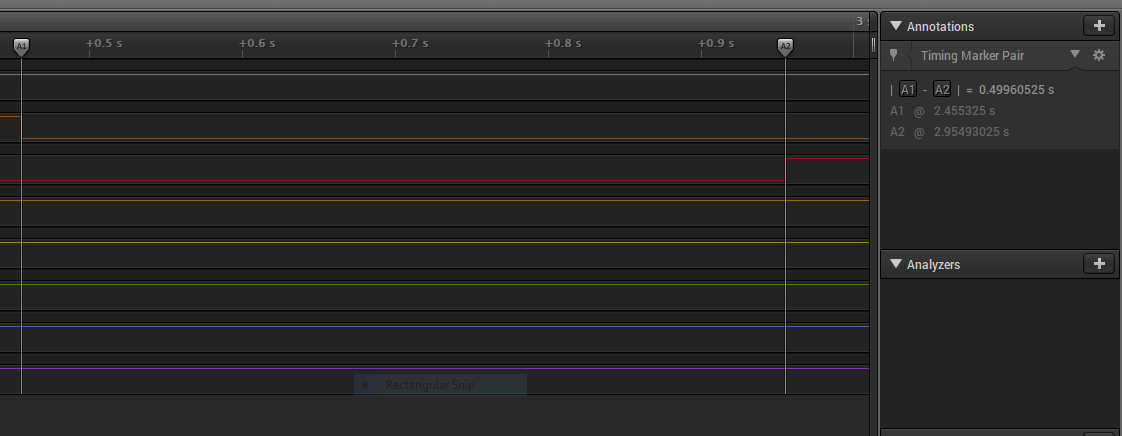
**Date Submitted:**

**Task 01:**



**Modified Code:**

**//Lab 3 Task01**

**#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=8;**

**int main(void)**

**{**

**SysCtlClockSet(SYSCTL\_SYSDIV\_16|SYSCTL\_USE\_PLL|SYSCTL\_XTAL\_16MHZ|SYSCTL\_OSC\_MAIN);**

**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(2083333);**

**GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1|GPIO\_PIN\_2|GPIO\_PIN\_3, 0x00);**

**SysCtlDelay(2083333);**

**if(ui8PinData==2) {**

**ui8PinData=8;**

**}**

**else{**

**ui8PinData=ui8PinData/2;**

**}**

**}**

**}**

**------------------------------------------------------------------------------------**

**Task 02A:**

Youtube Link: <https://youtu.be/B909bGGcByk>

**Modified Code:**

**//Lab3 Task02A**

**#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=8;**

**int main(void)**

**{**

**SysCtlClockSet(SYSCTL\_SYSDIV\_16|SYSCTL\_USE\_PLL|SYSCTL\_XTAL\_16MHZ|SYSCTL\_OSC\_MAIN);**

**SysCtlPeripheralEnable(SYSCTL\_PERIPH\_GPIOF);**

**GPIOPinTypeGPIOOutput(GPIO\_PORTF\_BASE, GPIO\_PIN\_1|GPIO\_PIN\_2|GPIO\_PIN\_3);**

**while(1)**

**{**

**//Blue**

**GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1|GPIO\_PIN\_2|GPIO\_PIN\_3, 4);**

**SysCtlDelay(2083333);**

**GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1|GPIO\_PIN\_2|GPIO\_PIN\_3, 0x00);**

**SysCtlDelay(2083333);**

**//Green**

**GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1|GPIO\_PIN\_2|GPIO\_PIN\_3, 8);**

**SysCtlDelay(2083333);**

**GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1|GPIO\_PIN\_2|GPIO\_PIN\_3, 0x00);**

**SysCtlDelay(2083333);**

**//Red**

**GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1|GPIO\_PIN\_2|GPIO\_PIN\_3, 2);**

**SysCtlDelay(2083333);**

**GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1|GPIO\_PIN\_2|GPIO\_PIN\_3, 0x00);**

**SysCtlDelay(2083333);**

**}**

**}**

**------------------------------------------------------------------------------------**

**Task 02B:**

Youtube Link: <https://youtu.be/X4JM0myQido>

**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[7]={2,8,4,10,6,12,14};**

**int main(void)**

**{**

**SysCtlClockSet(SYSCTL\_SYSDIV\_16|SYSCTL\_USE\_PLL|SYSCTL\_XTAL\_16MHZ|SYSCTL\_OSC\_MAIN);**

**SysCtlPeripheralEnable(SYSCTL\_PERIPH\_GPIOF);**

**GPIOPinTypeGPIOOutput(GPIO\_PORTF\_BASE, GPIO\_PIN\_1|GPIO\_PIN\_2|GPIO\_PIN\_3);**

**int i = 0; //array index c**

**while(1)**

**{**

**//Red**

**GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1|GPIO\_PIN\_2|GPIO\_PIN\_3, ui8PinData[i]);**

**if(i==6){**

**i=0;**

**}**

**else{**

**i++;**

**}**

**SysCtlDelay(2083333);**

**GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1|GPIO\_PIN\_2|GPIO\_PIN\_3, 0x00);**

**SysCtlDelay(2083333);**

**//Green**

**}**

**}**

**------------------------------------------------------------------------------------**