**Date Submitted: 9/21/19**

**Task 00: Execute provided code**

**Youtube Link:**

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

**Task 01:**

Youtube Link:

**Modified Schematic (if applicable):**

**Modified Code:**

**#include** <stdint.h>

**#include** <stdbool.h>

**#include** "inc/hw\_types.h"

**#include** "inc/hw\_memmap.h"

**#include** "driverlib/sysctl.h"

**#include** "driverlib/gpio.h"

**int** **main**(**void**)

{

uint8\_t ui8LED = 2;

**SysCtlClockSet**(SYSCTL\_SYSDIV\_4|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)

{

// Turn on the LED

**GPIOPinWrite**(GPIO\_PORTF\_BASE, GPIO\_PIN\_1|GPIO\_PIN\_2|GPIO\_PIN\_3, ui8LED);

// Delay for a bit

**SysCtlDelay**(2000000);

// Cycle through Red, Green and Blue LEDs

**if** (ui8LED == 8) {ui8LED = 2;} **else** {ui8LED = ui8LED\*2;}

}

}

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

**Task 02:**

Youtube Link:

**Modified Schematic (if applicable):**

**Modified Code:**

**// Insert code here**

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

**Task 03:**

Youtube Link:

**Modified Schematic (if applicable):**

**Modified Code:**

**// Insert code here**

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

