Task 1

#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 ui8PinData=2;

/\*\*

\* main.c

\*/

int main(void)

{

SysCtlClockSet(SYSCTL\_SYSDIV\_5|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(2000000);

GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1|GPIO\_PIN\_2|GPIO\_PIN\_3, 0x00,ui8PinData);

// GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_2, ui8PinData);

//GPIOPinWrite(GPIO\_PORTF\_BASE GPIO\_PIN\_3, ui8PinData);

SysCtlDelay(2000000);

if(ui8PinData==8) {ui8PinData=2;} else {ui8PinData=ui8PinData\*2;}

}

}