**Date Submitted:**

**Task 00: Execute provided code**

**Youtube Link:** [**https://www.youtube.com/watch?v=kK9jDrDoXZE**](https://www.youtube.com/watch?v=kK9jDrDoXZE)

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**Task 01:**

Youtube Link: <https://www.youtube.com/watch?v=_M0O9h0w6aE>

**Modified Schematic (if applicable):**

**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;**

**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(10000000);**

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

**SysCtlDelay(10000000);**

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

**}**

**}------------------------------------------------------------------------------------**

**Task 02:**

Youtube Link: [**https://www.youtube.com/watch?v=ttQWnLa4Yz0**](https://www.youtube.com/watch?v=ttQWnLa4Yz0)

**Modified Schematic (if applicable):**

**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"**

**int ui8PinData=2;**

**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, 2);**

**//GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1, ui8PinData);**

**SysCtlDelay(10000000);**

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

**SysCtlDelay(10000000);**

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

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

**//GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1, ui8PinData);**

**SysCtlDelay(10000000);**

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

**SysCtlDelay(10000000);**

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

**//GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1, ui8PinData);**

**SysCtlDelay(10000000);**

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

**SysCtlDelay(10000000);**

**GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1|GPIO\_PIN\_2|GPIO\_PIN\_3, 10);**

**//GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1, ui8PinData);**

**SysCtlDelay(10000000);**

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

**SysCtlDelay(10000000);**

**GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1|GPIO\_PIN\_2|GPIO\_PIN\_3, 6);**

**//GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1, ui8PinData);**

**SysCtlDelay(10000000);**

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

**SysCtlDelay(10000000);**

**GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1|GPIO\_PIN\_2|GPIO\_PIN\_3, 12);**

**//GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1, ui8PinData);**

**SysCtlDelay(10000000);**

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

**SysCtlDelay(10000000);**

**GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1|GPIO\_PIN\_2|GPIO\_PIN\_3, 14);**

**//GPIOPinWrite(GPIO\_PORTF\_BASE, GPIO\_PIN\_1, ui8PinData);**

**SysCtlDelay(10000000);**

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

**SysCtlDelay(10000000);**

**}**

**}**

**// Insert code here**

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