**10/02/2018**

**Task 00: Execute provided code**

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**Task 01:**

Youtube Link: <https://www.youtube.com/watch?v=oT8PNXR1sbw>

Current Period time is 150 ms.

Each LED is on for 50 ms.

Changing the delay of LED blink to 0.425 second by changing delay to 17000000 cycles since

25 ns x 170000000 = 0.425 s

**Modified Code:**

**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** (17000000); // 425 ms delay

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

**SysCtlDelay** (17000000); // 425 ms delay

**if** (ui8PinData == 8)

{

ui8PinData = 2;

}

**else**

{

ui8PinData = ui8PinData \* 2;

}

}

}

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

**Task 02:**

Youtube Link: https://youtu.be/fT0JYy\_MiLY

**Modified Code:**

**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);

uint8\_t ledColors[7]={2,4,8,6,10,12,14};

uint8\_t i;

**while** (1)

{

**for** (i = 0; i < 7; i++)

{

ui8PinData = ledColors[i];

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

**SysCtlDelay** (17000000); // 425 ms delay

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

**SysCtlDelay** (17000000); // 425 ms delay

}

}

}

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