```
//// Lab 3 – PWM
             -SAMPLE CODE DOES NOT WORK-
////
                    - set up appropriate registers
////
                    - set up TC pointer
////
* Include header files for all drivers
*/
#include <clock.h>
#include <conf clocks.h>
//setup a the correct TC pointer for the corresponding pins. (use
table 5-1 as a reference)
/* Set correct PA pins as TC pins for PWM operation */
void enable_port(void)
{
      //setup pins
}
/* Perform Clock configuration to source the TC
1) ENABLE THE APBC CLOCK FOR THE CORREECT MODULE
2) WRITE THE PROPER GENERIC CLOCK SELETION ID*/
void enable tc clocks(void)
      PM->APBCMASK.reg |= _____; // PM_APBCMASK_____ is
in the ____ position
                      _____; // ID for _____ is
      uint32 t temp=
       __ (see table 14-2)
      temp |= 0 << 8; // Selection Generic clock generator 0
      GCLK->CLKCTRL.reg=temp; // Setup in the CLKCTRL register
      GCLK->CLKCTRL.reg |= 0x1u << 14; // enable it.
}
/* Configure the basic timer/counter to have a period of_____ or a
frequency of _____ */
void enable_tc(void)
{
      enable_port();
       enable tc clocks();
```

```
/* Set up CTRLA */
        /*
        Set the
        1) counter mode
        2) prescaler
        3) set the PRESCSYNC bits to PRESC from table 27-4 in the
datasheet
        */
        /* Write a suitable value to fix duty cycle and period.*/
        //Wait for sync operation
        /*Enable TC */
}
int main (void)
        system_clock_init();
        /* Enable the timer*/
        enable_tc();
        while(1)
        }
}
```