## **Hacettepe University Department of Electrical and Electronics Engineering**

## **ELE 417-EMBEDDED SYSTEM DESIGN**

## **Laboratory 2 Report**

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## **Questions and Answers**

```
#include <msp430.h>
void main(void)
   unsigned const int short blink = 5000;
   unsigned const int long blink = 20000;
    unsigned const int halfsecond = 30000;
   unsigned const int delays[] = { short blink, halfsecond, halfsecond,
                                       short blink, halfsecond, long blink,
                                       halfsecond, short blink, halfsecond,
                                       short blink, halfsecond, halfsecond,
                                       short blink, halfsecond, halfsecond,
                                       short blink, halfsecond,
short blink,
                                       halfsecond, short blink, halfsecond,
                                       short blink, halfsecond, long blink,
                                       halfsecond, halfsecond, short blink,
                                       halfsecond, long blink, halfsecond,
                                       long blink, halfsecond, long blink,
                                       halfsecond, long blink, halfsecond,
                                       halfsecond, long blink, halfsecond,
                                       long_blink, halfsecond, short_blink,
                                       halfsecond, short blink, halfsecond,
                                       short blink };
    volatile int counter = 0;
   WDTCTL = WDTPW | WDTHOLD; // stop watch dog timer
    PM5CTL0 &= ~LOCKLPM5; //previous port settings are activated.
    P1DIR |= BIT0; // P1.0 is configured as output
    P1OUT = ~BITO; // Led on P1.0 is turned off
   TA1CCR0 = delays[0];
    TA1CTL = TASSEL 1 | MC 1 | TACLR;
```