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;1DT301, Computer Technology I
:Date: 2019-10-09
:Author:
 Student name 1:
Student name 2:
                     Einar van de Velde
                     Abdulla Mehdi
;Lab number:
                     4.
                     Task 1.
:Title:
                     STK600, CPU ATmega2560.
;Hardware:
:Function:
                     Creates a square wave with the frequency 1 Hz.
;Input ports:
                     None.
                     On-board LEDs connected to PORTB.
;Output ports:
:Subroutines:
                     None.
;Included files:
                     m2560def.inc
;Other information:
Changes in program:
     File Created (2019-10-09)
          Program is runnable (2019-10-09)
.include"m2560def.inc"
.CSEG
.org 0x0000
rjmp START
                                ; Relative Jump To Start
.org OVF0ADDR
imp TIMER; Jump To Timer
.org 0x72
START:
                                ; Load Immediate
  ldi r20, HIGH(RAMEND)
  out SPH, r20; Out Port
  Idi r20, LOW(RAMEND)
  out SPL, r20
  ldi r16, 0x01
  out DDRB, r16
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ldi r21, 0b00000101 out TCCR0B, r21	
Idi r21, (1< <toie0) sts TIMSK0, r21 Idi r21, 240 out TCNT0, r21</toie0) 	; Store Direct To SRAM
sei ser r17 out DDRB, r17	; Enable Global Interrupts ; Set Register 17
ldi r18, 0	
; LOOP: nop rjmp LOOP	; No Operation
; TIMER: com r17 out PORTB, r17 reti	; Ones Compliment