MSP430 Assembler Code Template for use with TI Code Composer Studio

.include "msp430.h" ; Include device header file

.export RESET ; Export program entry-point to
; make it known to linker.

.data
counter: .word 10000

.text
.retain ; Assemble into program memory.
.retainrefs ; Override ELF conditional linking
; and retain current section.

.assemble
RESET
  mov.w #__STACK_END,SP ; Initialize stackpointer
StopWDT
  mov.w #WDTPW|WDTHOLD,&WDTCTL ; Stop watchdog timer

; Main loop here

.myfun:
  xor.b #BIT0, P1OUT ; Toggle P1.0
  mov.w #10000, counter ; |
  loop:
    dec.w &counter ; | delay loop
    jnz loop ; |
    jmp myfun ; |
.endloop:
  jmp endloop

; Stack Pointer definition

.global __STACK_END
.sect .stack

; Interrupt Vectors

.sect ".reset" ; MSP430 RESET Vector
.short RESET