MSP430 Assembler Code Template for use with TI Code Composer Studio

```
cdecls C, LIST, "msp430.h" ; Include device header file
.data
x: .space 2 ; Assemble into program memory
.text ; Override ELF conditional linking
.retain ; and retain current section
.retainrefs ; Additionally retain any sections
; that have references to current
; section
RESET mov.w #__STACK_END, SP ; Initialize stackpointer
StopWDT mov.w #WDTPW|WDTHOLD,&WDTCTL ; Stop watchdog timer

mov #0, &x
mov #0, R5
cond_label:
cmp #10, R5
jge break
add R5, &x
inc R5
jmp cond_label
break:
loop: jmp loop
```

Stack Pointer definition

```
.global __STACK_END
.sect .stack
```

Interrupt Vectors
```
.sect ".reset" ; MSP430 RESET Vector
.short RESET
```