```
;-------------------------------------------------------------------------------
; MSP430 Assembler Code Template for use with TI Code Composer Studio
;
;
;-------------------------------------------------------------------------------
            .cdecls C,LIST,"msp430.h"       ; Include device header file
;-------------------------------------------------------------------------------
            .data
Result1:    .space  2
Result2:    .space  2
;-------------------------------------------------------------------------------
            .text                           ; Assemble into program memory
            .retain                         ; Override ELF conditional linking
                                            ; 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

;-------------------------------------------------------------------------------
                                            ; Main loop here
; call subroutine Times6
             mov.w  #6, R12                 ; prepare input for Times6
             call   #Times6                 ; call subroutine Times6
             mov.w  R13, &Result1           ; move result from Times6 to variable Result1

; call subroutine Times6

             mov    #24, R12                ; prepare input for Times6
             call   #Times6                 ; call subroutine Times6
             mov.w  R13, &Result2           ;  move result from Times6 to variable Result1

Loop:       jmp     Loop
;-------------------------------------------------------------------------------
;                               Subroutine: Times6
;                               ------------------
;   Input: R12
;   Ouput: R13 : R12 * 6
;
;-------------------------------------------------------------------------------
Times6:
            mov.w   #0,  R13
            add.w   R12, R13
            add.w   R12, R13
            add.w   R12, R13
            add.w   R12, R13
            add.w   R12, R13
            add.w   R12, R13
            ret

;-------------------------------------------------------------------------------
;           Stack Pointer definition
;-------------------------------------------------------------------------------
            .global __STACK_END
            .sect   .stack

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