D:\OKUL\4-1\447 LAB\EXP-5\lab-5-question\atd_conv.s

```
RCGCADC
                            EQU 0x400FE638
     ADC0_ACTSS
ADC0_RIS
 2
                            EQU 0x40038000
 3
                            EQU 0x40038004
    ADCO IM
 4
                            EQU 0x40038008
 5
    ADCO EMUX
                           EQU 0x40038014
    ADC0_PSSI
                           EQU 0x40038028
    ADC0_SSMUX3
ADC0_SSCTL3
ADC0_SSFIF03
 7
                            EQU 0x400380A0
 8
                            EQU 0x400380A4
 9
                            EQU 0x400380A8
10
    ADCO PC
                            EQU 0x40038FC4
     ADC0_ISC
11
                            EQU 0x4003800C
12
13
                            AREA
                                          main, READONLY, CODE
14
                            THUMB
15
16
                            EXTERN
                                          delay
                                          atd conv
17
                            EXPORT
18
19
20
                            PROC
     atd_conv
                            PUSH
21
                                     {LR}
22
                                     delay
                                     R3, =ADC0_RIS
23
                            LDR
24
                            LDR
                                     R4, =ADC0_SSFIF03
25
                                     R2, =ADC0_PSSI
                            LDR
                                     R6, = ADC0_ISC
26
                            LDR
27
                            ; sampling
                                     R0, [R2]
R0, R0, #0x08
R0, [R2]
R0, [R3]
28
                            LDR
29
                            ORR
30
                            STR
     loop
31
                            LDR
                                     R0, R0, #8
32
                            ANDS
33
                            BEQ
                                     loop
34
                            LDR
                                     R0,[R4]
35
                            STR
                                     R0, [R6]
36
                            POP
                                     {LR}
37
                            ВХ
                                      LR
38
                            ENDP
                            END
39
```