## D:\OKUL\4-1\447 LAB\EXP-5\lab-5-question\adc\_initial.s

```
SYSCTL RCGCGPIO
                           EOU
                                    0x400FE608
 3
     GPIO PORTE DATA
                           EQU
                                   0x400243FC
    GPIO PORTE DIR
                           EQU
                                   0x40024400
 4
    GPIO PORTE AMSEL
                         EQU
                                   0x40024428
    GPIO_PORTE_AFSEL
                           EQU
                                   0x40024420
                                    0x4002451C
 7
     GPIO_PORTE_DEN
                           EQU
 8
     GPIO_PORTE_PUR
                           EQU
                                    0x40024510
 9
     IOE
                           EQU
                                    0x00
10
    PUE
                           EQU
                                    0x00
11
                                 0x400FE638
12
    RCGCADC
                           EQU
    ADC0_ACTSS
ADC0_RIS
13
                           EQU
                                    0x40038000
                           EQU 0x40038004
14
    ADC0 IM
15
                          EQU 0x40038008
   ADC0 EMUX
                         EQU 0x40038014
16
17
    ADCO PSSI
                         EQU 0x40038028
    ADC0_SSMUX3
ADC0_SSCTL3
ADC0_SSFIF03
                          EQU 0x400380A0
18
19
                           EQU 0x400380A4
                           EQU 0x400380A8
20
                           EQU 0x40038FC4
21
    ADC0_PC
22
23
                           AREA
                                        main, READONLY, CODE
                           THUMB
25
26
                           EXPORT
                                        adc_initial
27
28
29
     adc initial
                           PROC
30
                           LDR R1, =RCGCADC
                           LDR R0, [R1]
31
                           ORR R0, R0, #0x01
32
33
                           STR R0, [R1]
34
                           NOP
35
                           NOP
36
                           NOP
37
                           NOP
                           NOP
39
                           LDR R1,=SYSCTL_RCGCGPIO
40
41
                           LDR R0, [R1]
42
                           ORR R0, \#0x10
43
                           STR R0 , [R1]
44
                           NOP
                           NOP
45
47
                           LDR R1, =GPIO_PORTE_AFSEL
48
                           LDR R0, [R1]
50
                           ORR R0, R0, \#0 \times 08
51
                           STR R0, [R1]
52
53
                           LDR R1, =GPIO_PORTE_DIR
                           LDR R0, [R1]
54
55
                           BIC R0, R0, \#0\times08
56
                           STR R0, [R1]
58
                           LDR R1, =GPIO_PORTE_DEN
                           LDR R0, [R1]
59
                           BIC R0, R0, \#0\times08
60
                           STR R0, [R1]
61
62
63
                           LDR R1, =GPIO PORTE AMSEL
                           LDR R0, [R1]
64
65
                           ORR R0, R0, \#0\times08
66
                           STR R0, [R1]
67
68
                           LDR R1, =ADC0_ACTSS
                           LDR R0, [R1]
69
                           BIC R0, R0, #0x08
70
71
                           STR R0, [R1]
72
73
                           LDR R1, =ADC0_EMUX
                           LDR R0, [R1]
BIC R0, R0, #0xF000
74
75
76
                           STR R0, [R1]
77
```

## D:\OKUL\4-1\447 LAB\EXP-5\lab-5-question\adc\_initial.s

```
78
                                         LDR R1, =ADC0_SSMUX3
LDR R0, [R1]
BIC R0, R0, #0x000F
 79
 80
 81
                                          STR RO, [R1]
 83
                                         LDR R1, =ADCO_SSCTL3
LDR R0, [R1]
ORR R0, R0, #0x06
 84
 85
 86
 87
                                          STR R0, [R1]
 88
                                         LDR R1, =ADC0_PC
LDR R0, [R1]
ORR R0, R0, #0x01
 89
 90
 91
 92
                                          STR R0, [R1]
 93
 94
                                          LDR R1, =ADC0_ACTSS
                                         LDR R0, [R1]
ORR R0, R0, #0x08
STR R0, [R1]
 95
 96
 97
 98
                                          BX LR
 99
100
                                          ENDP
101
                                          END
102
```